



LANDSCAPE PLAN

SITE PLAN

SITE SECTIONS

LANDSCAPING LOCATION & TREATMENT

PROPOSED PLANTING

MATERIAL PALETTE

EXISTING TREES & VEGETATION

FENCES & WALLS

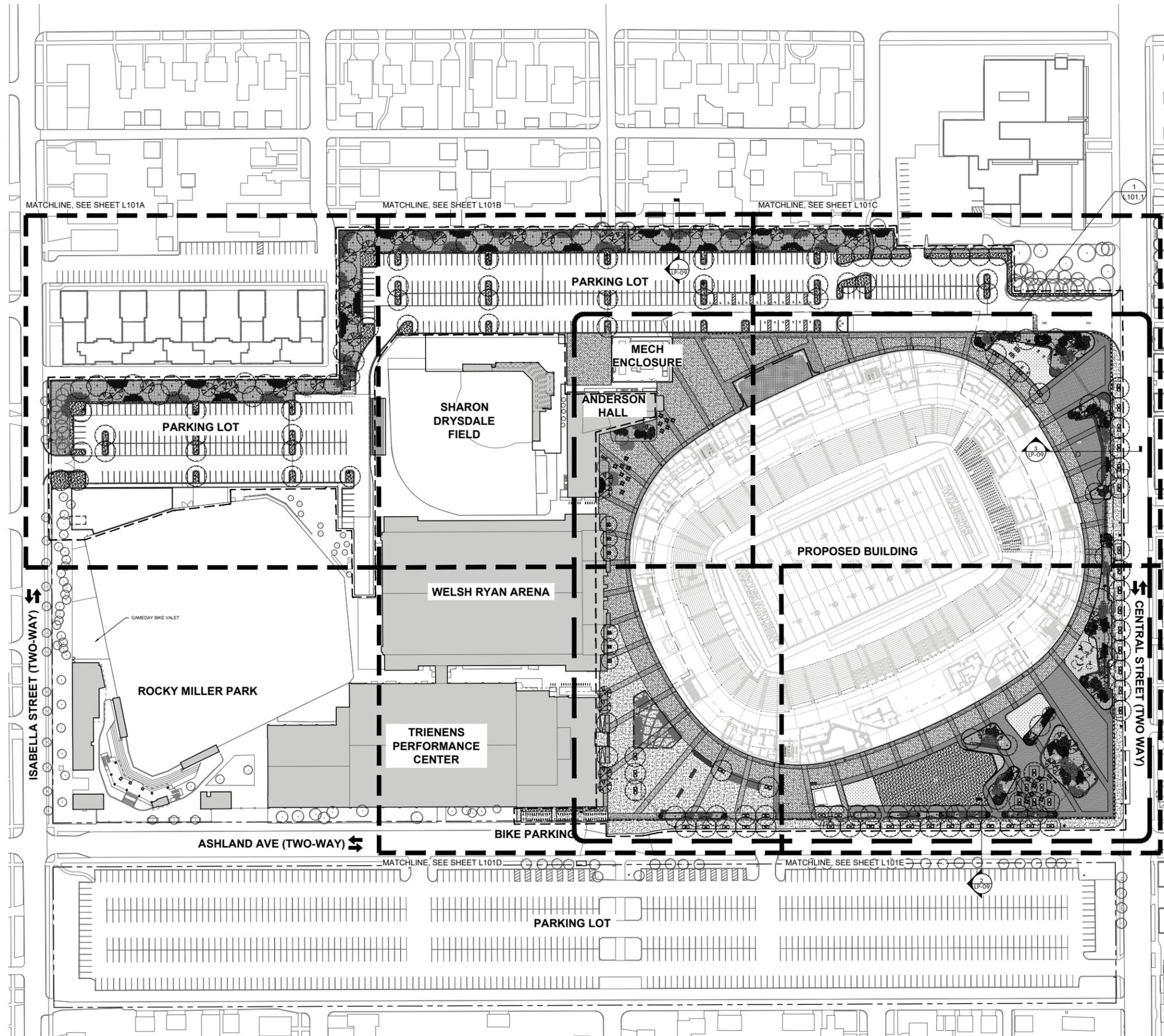
SITE LIGHTING PLAN

SHADOW ANALYSIS

PEDESTRIAN PATH

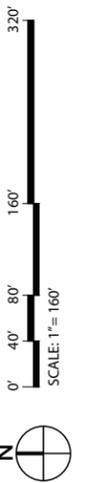


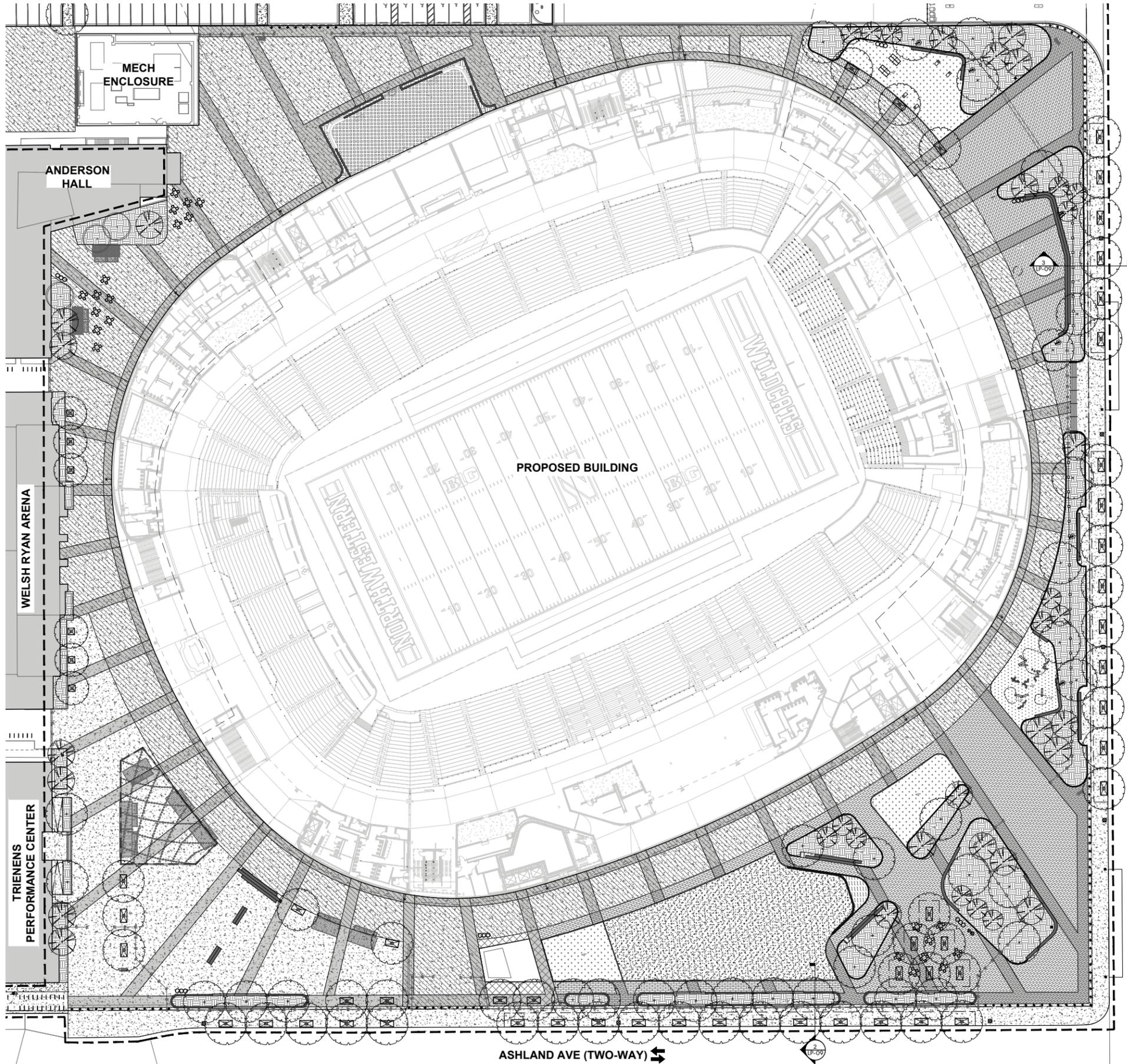
**NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**



- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- 6H ORNAMENTAL WELDED WIRE FENCE
- 6H ORNAMENTAL METAL FENCE
- TEMPORARY FENCE
- [Pattern] PEDESTRIAN CONCRETE PAVING, TYPE 1
- [Pattern] PEDESTRIAN CONCRETE PAVING, TYPE 2
- [Pattern] VEHICULAR CONCRETE PAVING, TYPE 1
- [Pattern] VEHICULAR CONCRETE PAVING, TYPE 2
- [Pattern] UNIT PAVING, TYPE 1
- [Pattern] UNIT PAVING, TYPE 2
- [Pattern] PERMEABLE UNIT PAVING, TYPE 1
- [Pattern] PERMEABLE UNIT PAVING, TYPE 2
- [Pattern] PIP RUBBER SURFACING
- [Pattern] AGGREGATE PAVING
- [Pattern] ARTIFICIAL TURF
- [Pattern] PEDESTAL PAVER PAVING
- [Pattern] CONCRETE STAIRS W/ HANDRAILS
- [Pattern] CONCRETE PLANTER
- [Pattern] STONE PLANTER
- [Pattern] RAISED CONCRETE CURB
- [Pattern] FLUSH CONCRETE CURB
- [Pattern] CONCRETE RETAINING WALL
- [Pattern] CONCRETE SEATWALL
- [Pattern] BLEACHER SEATING, TYPE 1
- [Pattern] BLEACHER SEATING, TYPE 2
- [Pattern] MOVEABLE GROUP PLATFORM SEATING
- [Pattern] WOOD SEATWALL TOPPER
- [Pattern] METAL EDGING
- [Pattern] TRASH/RECYCLING RECEPTACLE
- [Pattern] DRINKING FOUNTAIN
- [Pattern] REMOVABLE BOLLARD
- [Pattern] PLAY ELEMENTS
- [Pattern] MOVEABLE TABLES AND CHAIRS
- [Pattern] TREE GRATE
- [Pattern] PING PONG TABLES
- [Pattern] CORN HOLE GAMES
- [Pattern] BICYCLE RACK
- [Pattern] BICYCLE REPAIR STATION
- [Pattern] EXISTING TREE TO REMAIN AND BE PROTECTED
- [Pattern] SHADE TREE
- [Pattern] ORNAMENTAL TREE
- [Pattern] SHRUBS
- [Pattern] SHRUBS/ PERENNIALS/ GROUNDCOVER
- [Pattern] SOD
- [Pattern] GROUND HYDRANT, REFER TO MEP
- [Pattern] HOSE BIBB, REFER TO MEP
- [Pattern] EXISTING BLUE LIGHT PHONE
- [Pattern] PROPOSED BLUE LIGHT PHONE

LANDSCAPE SITE PLAN





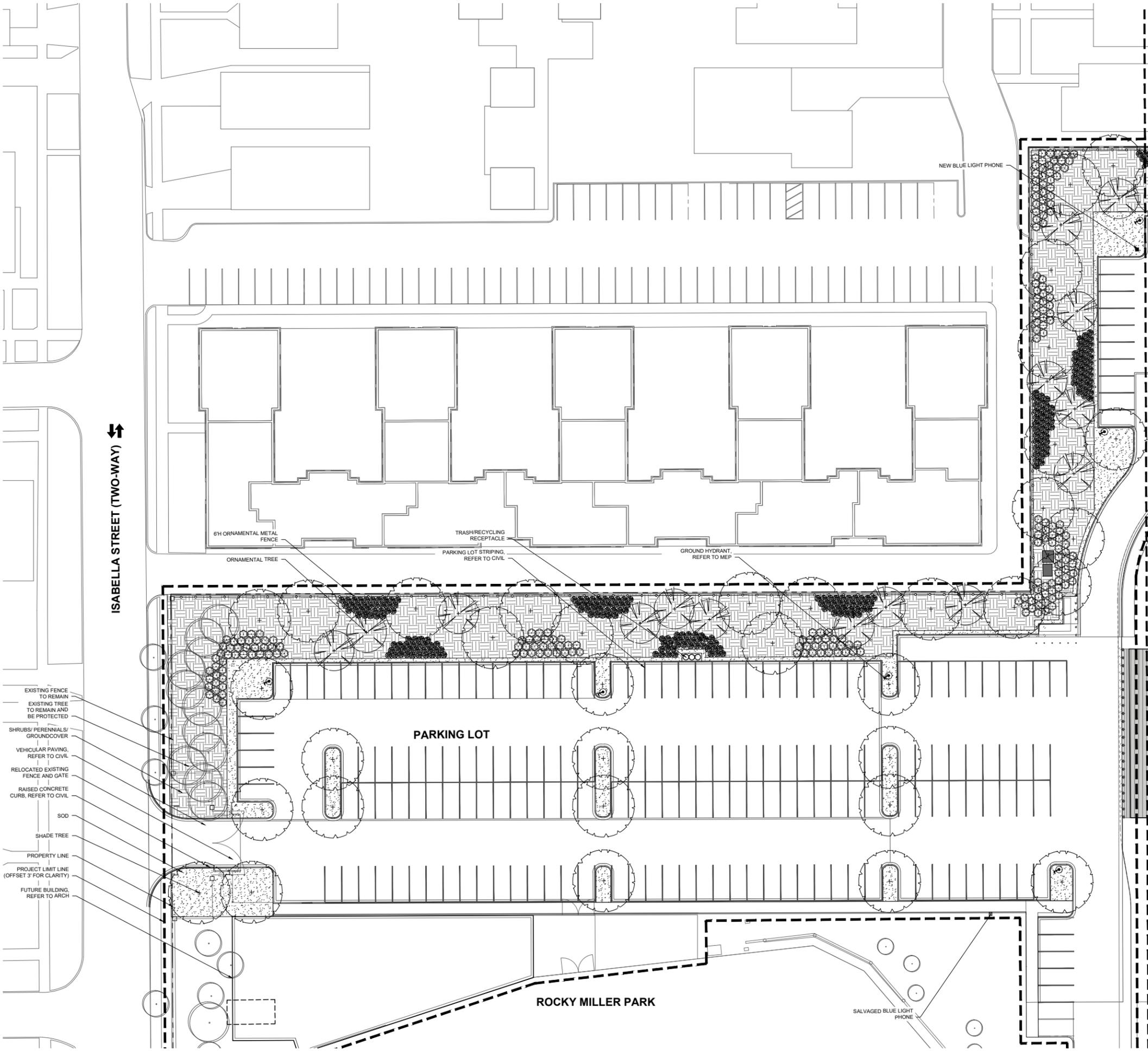
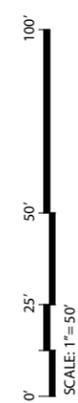
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← CENTRAL STREET (TWO WAY)

ASHLAND AVE (TWO-WAY) ↕



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- EXISTING FENCE TO REMAIN
- EXISTING TREE TO REMAIN AND BE PROTECTED
- SHRUBS/ PERENNIALS/ GROUNDCOVER
- VEHICULAR PAVING, REFER TO CIVIL
- RELOCATED EXISTING FENCE AND GATE
- RAISED CONCRETE CURB, REFER TO CIVIL
- SOD
- SHADE TREE
- PROPERTY LINE
- PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- FUTURE BUILDING, REFER TO ARCH

ISABELLA STREET (TWO-WAY) ↔

PARKING LOT

ROCKY MILLER PARK

NEW BLUE LIGHT PHONE

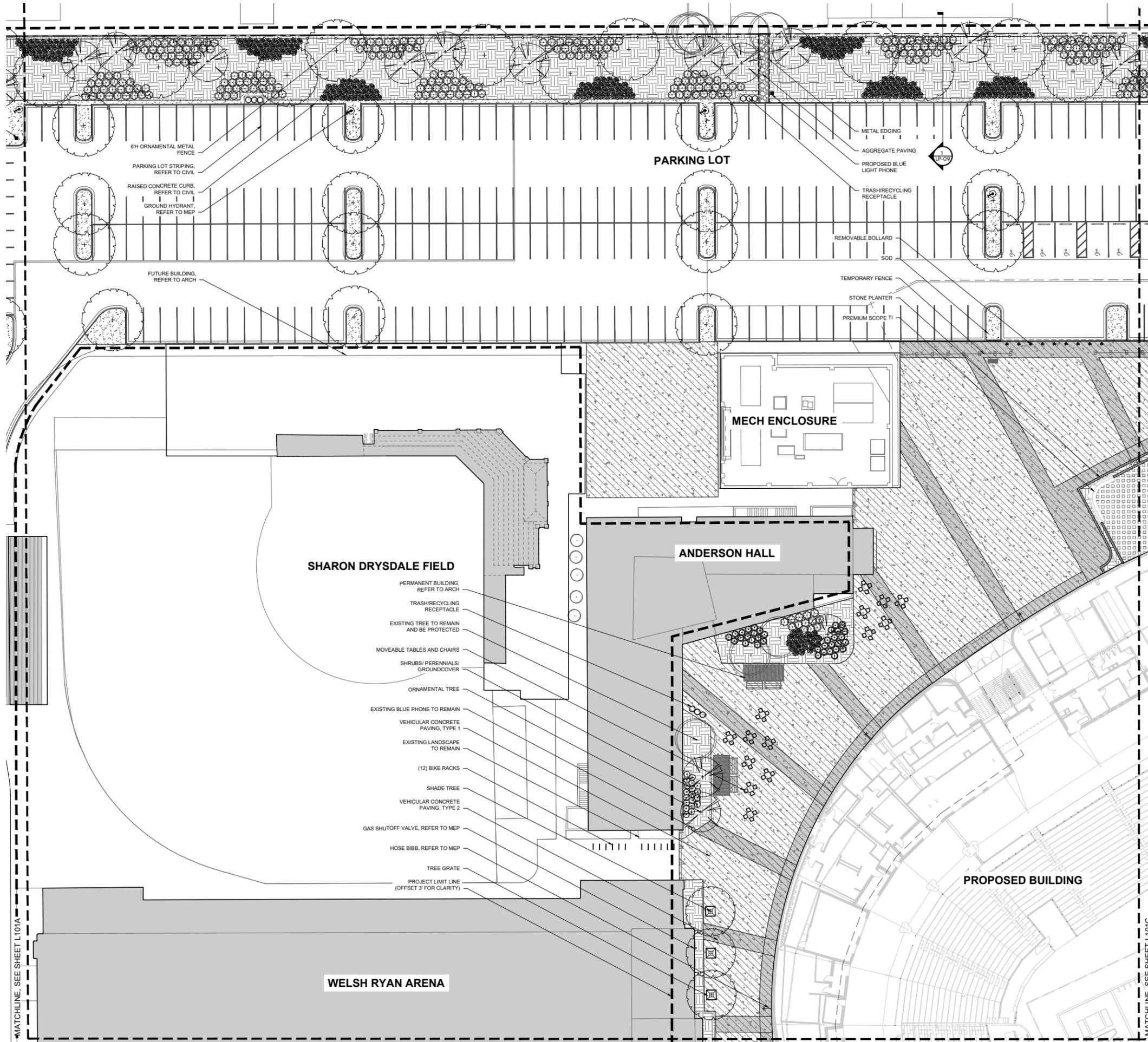
GROUND HYDRANT, REFER TO MEP

TRASH/RECYCLING RECEPTACLE

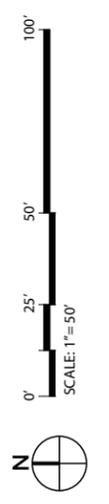
ORNAMENTAL TREE

SALVAGED BLUE LIGHT PHONE

MATCHLINE. SEE SHEET L101B



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MATCHLINE, SEE SHEET L101A

MATCHLINE, SEE SHEET L101C

MATCHLINE, SEE SHEET L101D

6H ORNAMENTAL METAL FENCE
PARKING LOT STRIPING, REFER TO CIVIL
RAISED CONCRETE CURB, REFER TO CIVIL
GROUND HYDRANT, REFER TO MEP

PARKING LOT

METAL EDGING
AGGREGATE PAVING
PROPOSED BLUE LIGHT PHONE
TRASH/RECYCLING RECEPTACLE

REMOVABLE BOLLARD
SOD

TEMPORARY FENCE
STONE PLANTER
PREMIUM SCOPE TI

FUTURE BUILDING, REFER TO ARCH

SHARON DRYSDALE FIELD

PERMANENT BUILDING, REFER TO ARCH
TRASH/RECYCLING RECEPTACLE
EXISTING TREE TO REMAIN AND BE PROTECTED
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SHRUBS/ PERENNIALS/ GROUNDCOVER
ORNAMENTAL TREE
EXISTING BLUE PHONE TO REMAIN
VEHICULAR CONCRETE PAVING, TYPE 1
EXISTING LANDSCAPE TO REMAIN
(12) BIKE RACKS
SHADE TREE
VEHICULAR CONCRETE PAVING, TYPE 2
GAS SHUTOFF VALVE, REFER TO MEP
HOSE BIBB, REFER TO MEP
TREE GRATE
PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)

MECH ENCLOSURE

ANDERSON HALL

PROPOSED BUILDING

WELSH RYAN ARENA



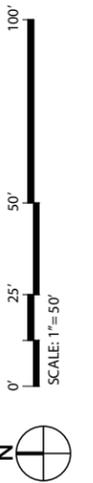
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RYAN FIELD REDEVELOPMENT
PLANNED DEVELOPMENT APPLICATION**

LANDSCAPE SITE PLAN - ENLARGED



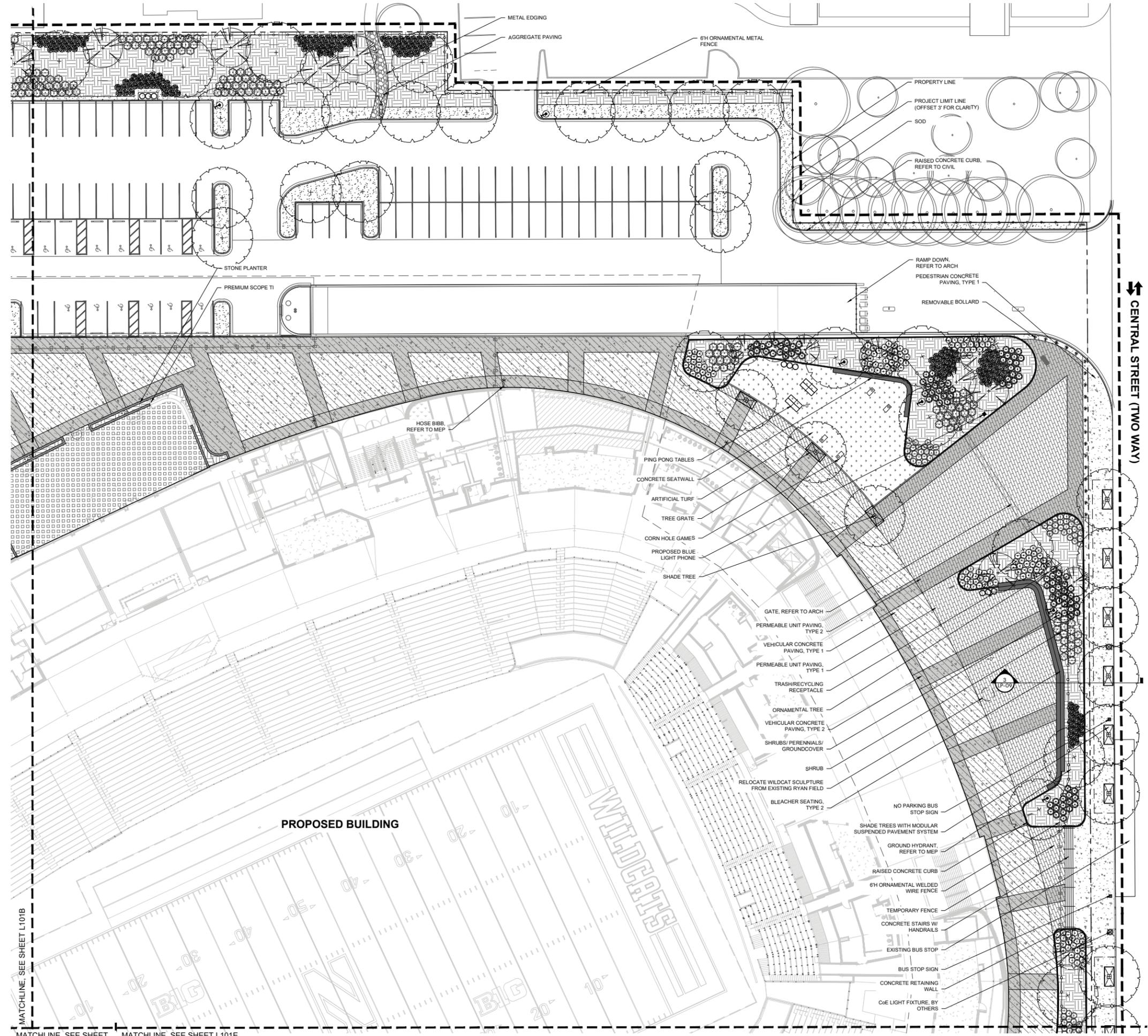
LP-06

AUG 11, 2023



site landscape architecture urban design

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- 6\"/>
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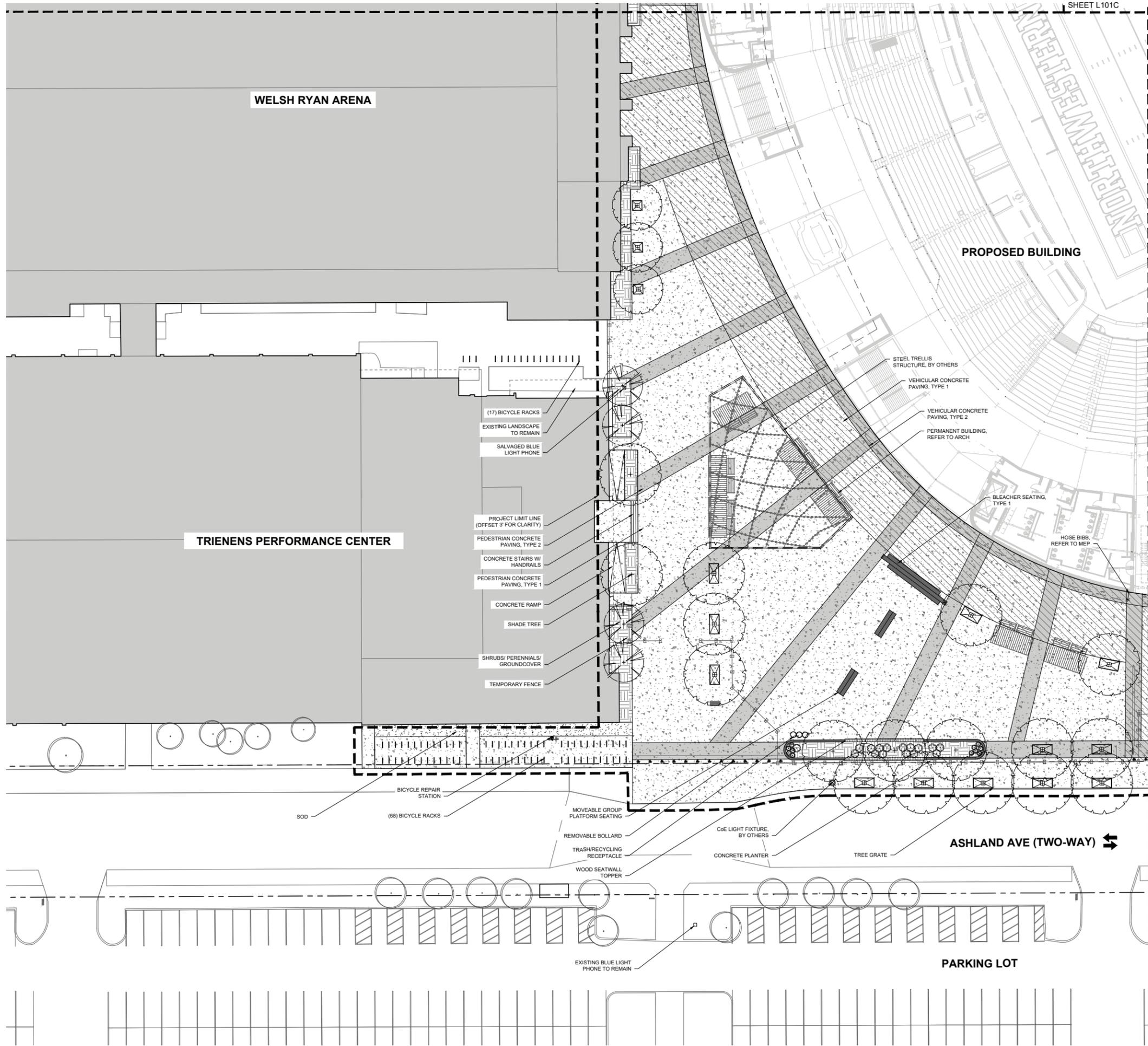
MATCHLINE - SEE SHEET L101B

MATCHLINE - SEE SHEET L101C MATCHLINE - SEE SHEET L101E

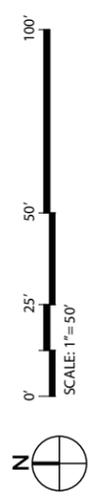


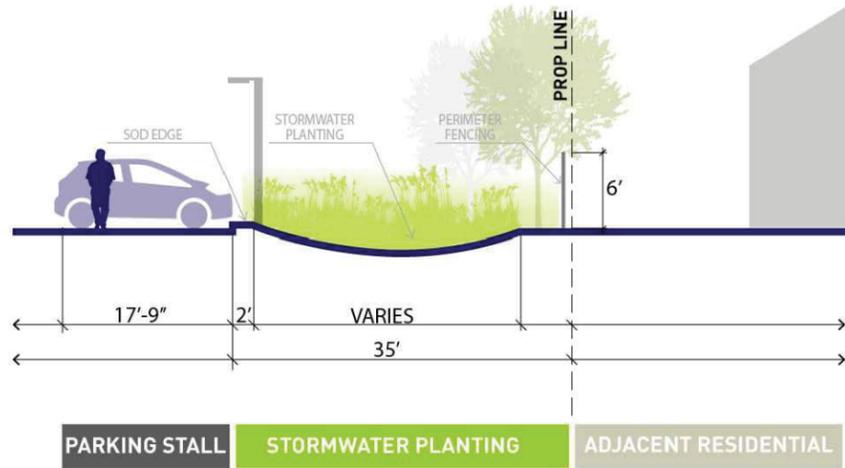
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PLANNED DEVELOPMENT APPLICATION

LANDSCAPE SITE PLAN - ENLARGED

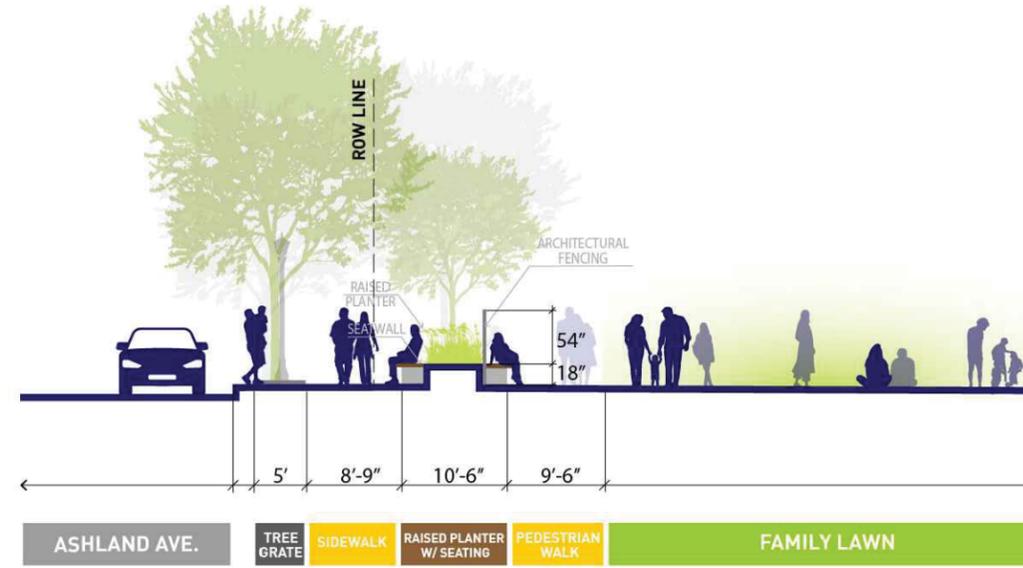


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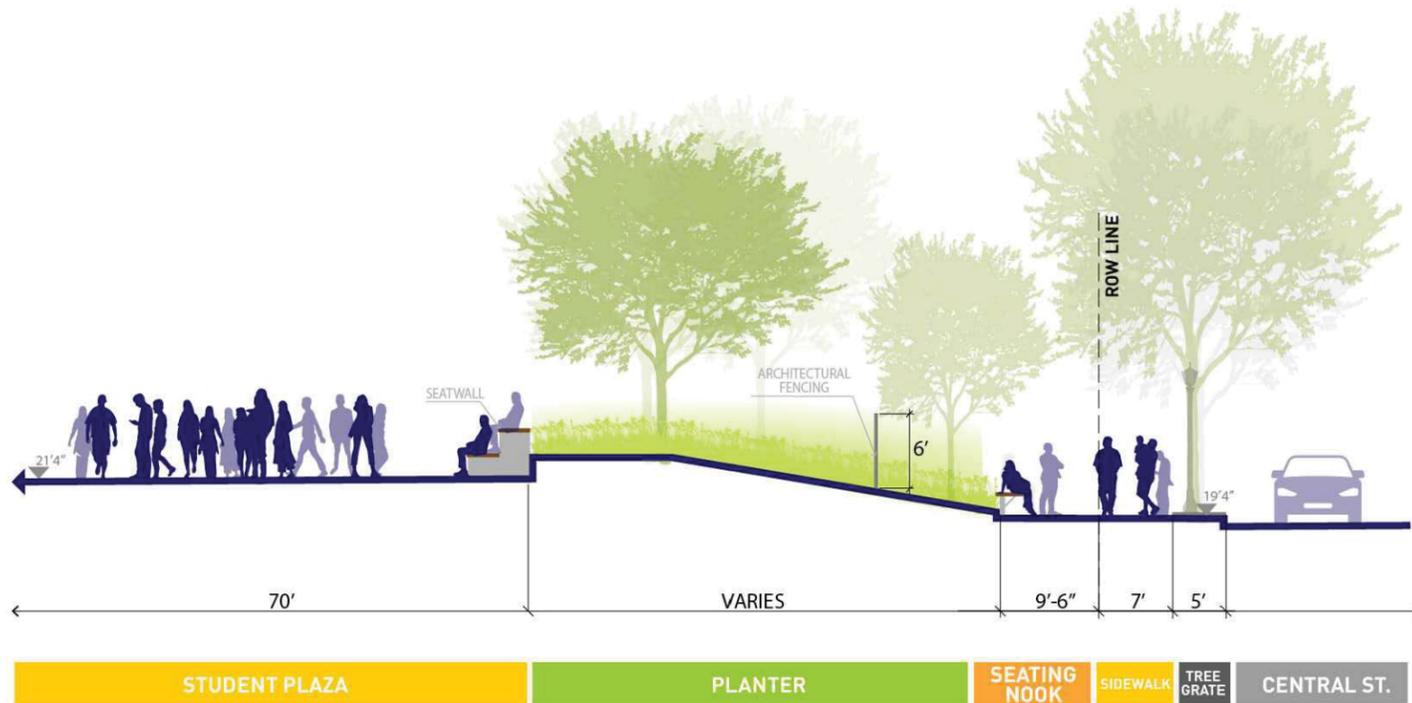




1 SITE SECTION
NTS



2 SITE SECTION
NTS

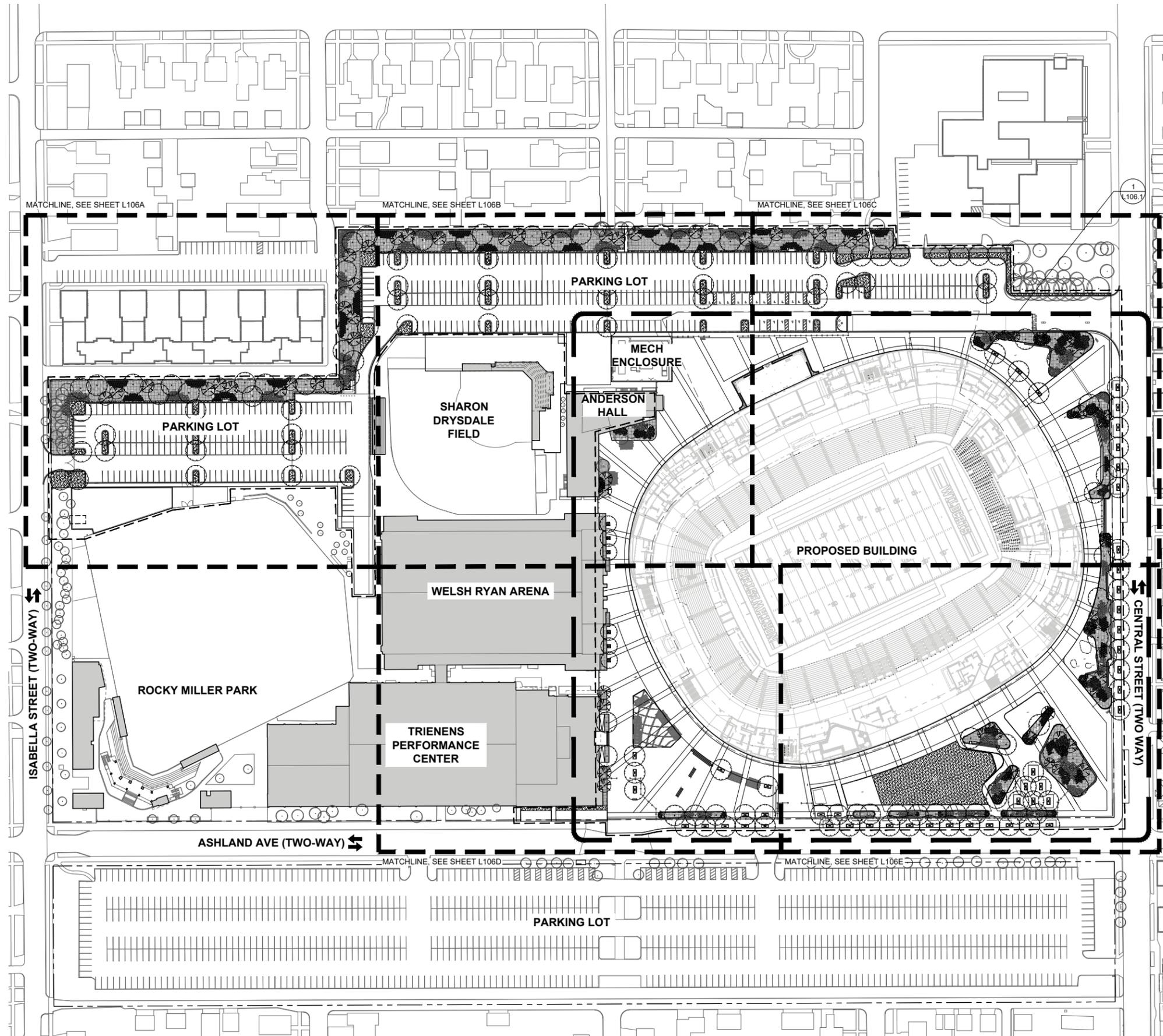


3 SITE SECTION
NTS





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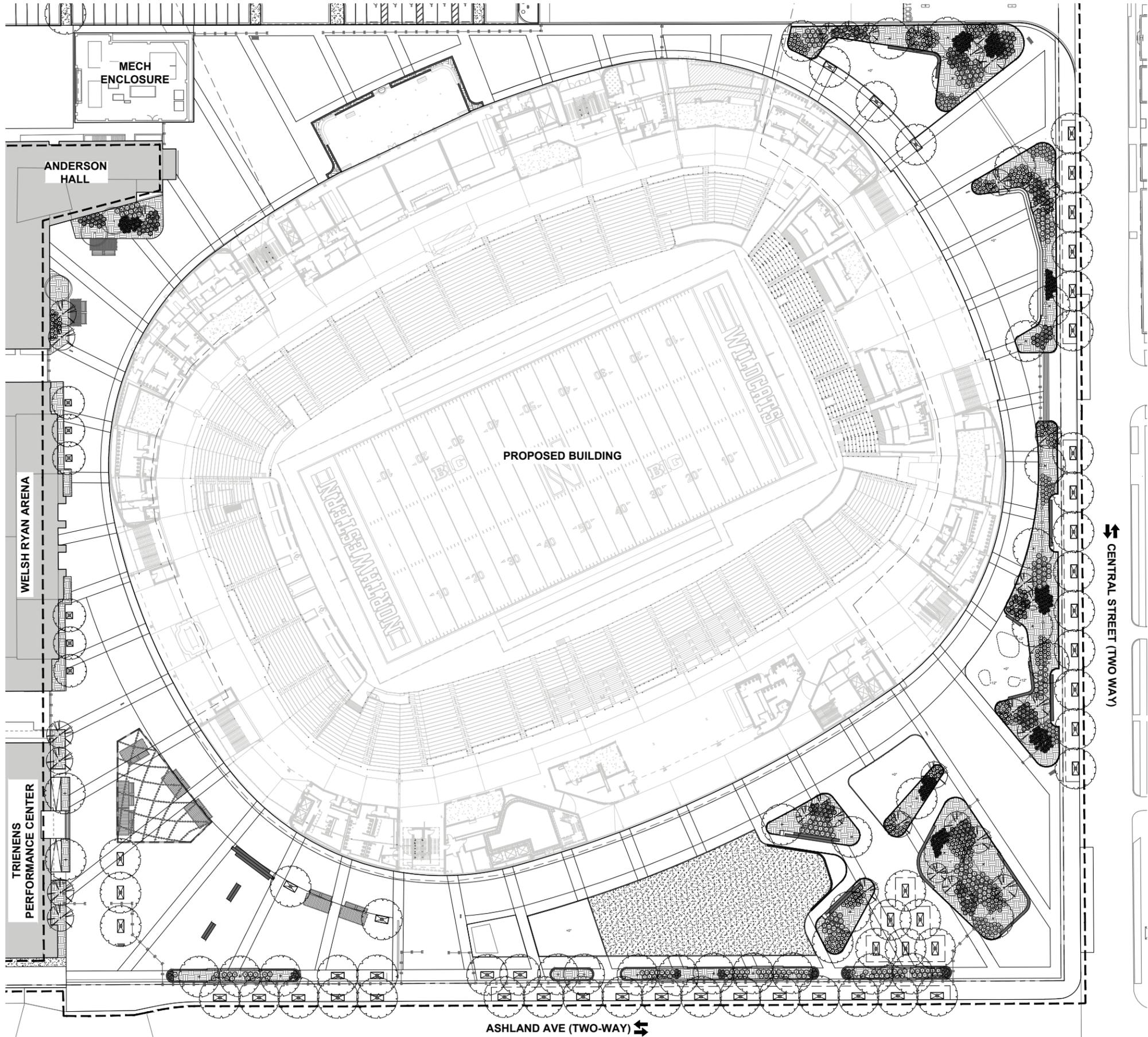


LEGEND

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LANDSCAPING LOCATION & TREATMENT



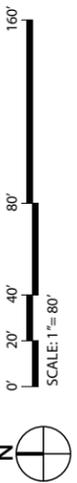


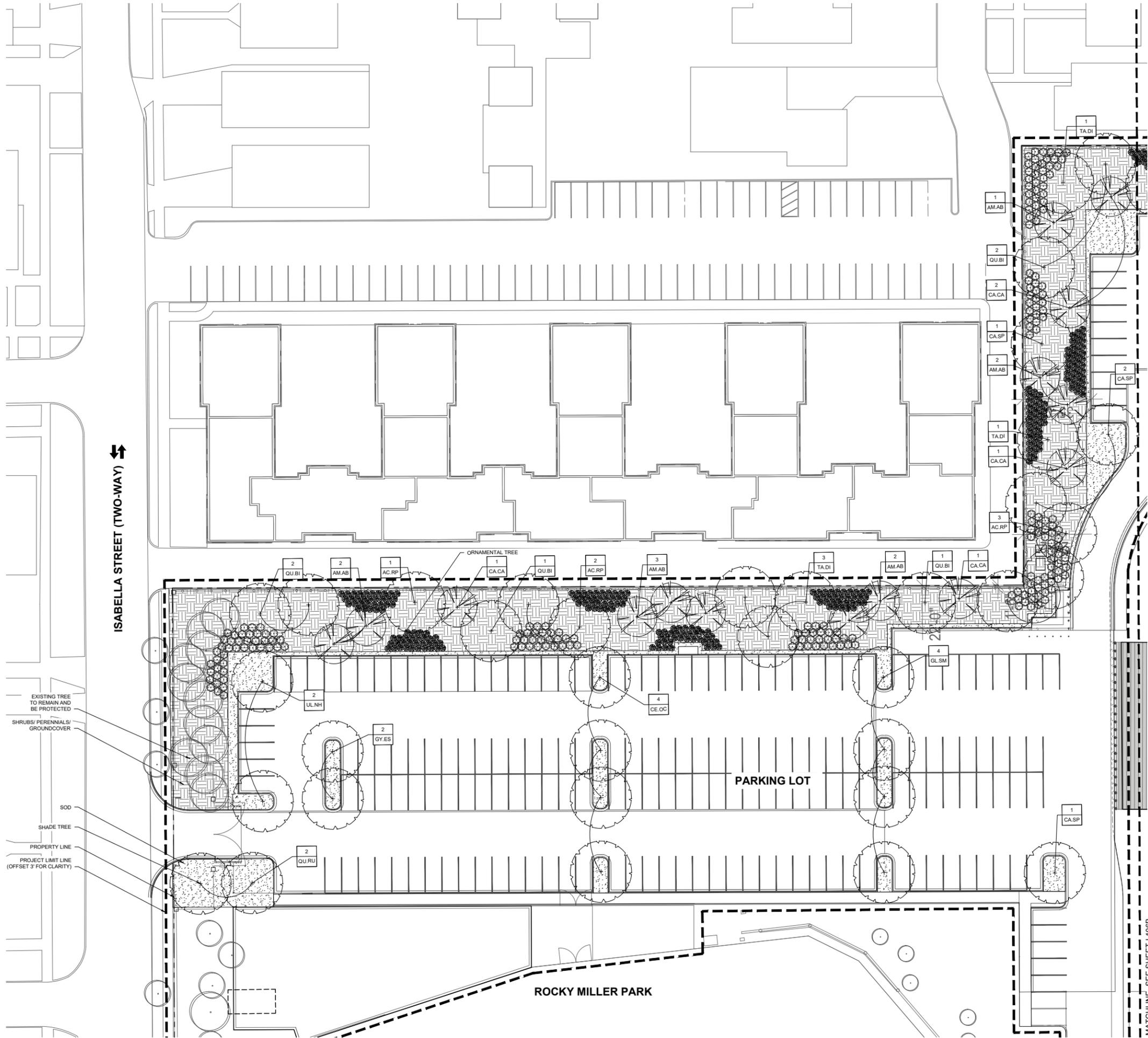
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EXISTING TREE TO REMAIN AND BE PROTECTED

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SOD

SHADE TREE

PROPERTY LINE

PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)

ISABELLA STREET (TWO-WAY) ↔

ROCKY MILLER PARK

PARKING LOT

MATCHLINE. SEE SHEET L106B

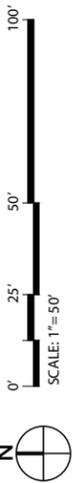
site
landscape
architecture
urban design

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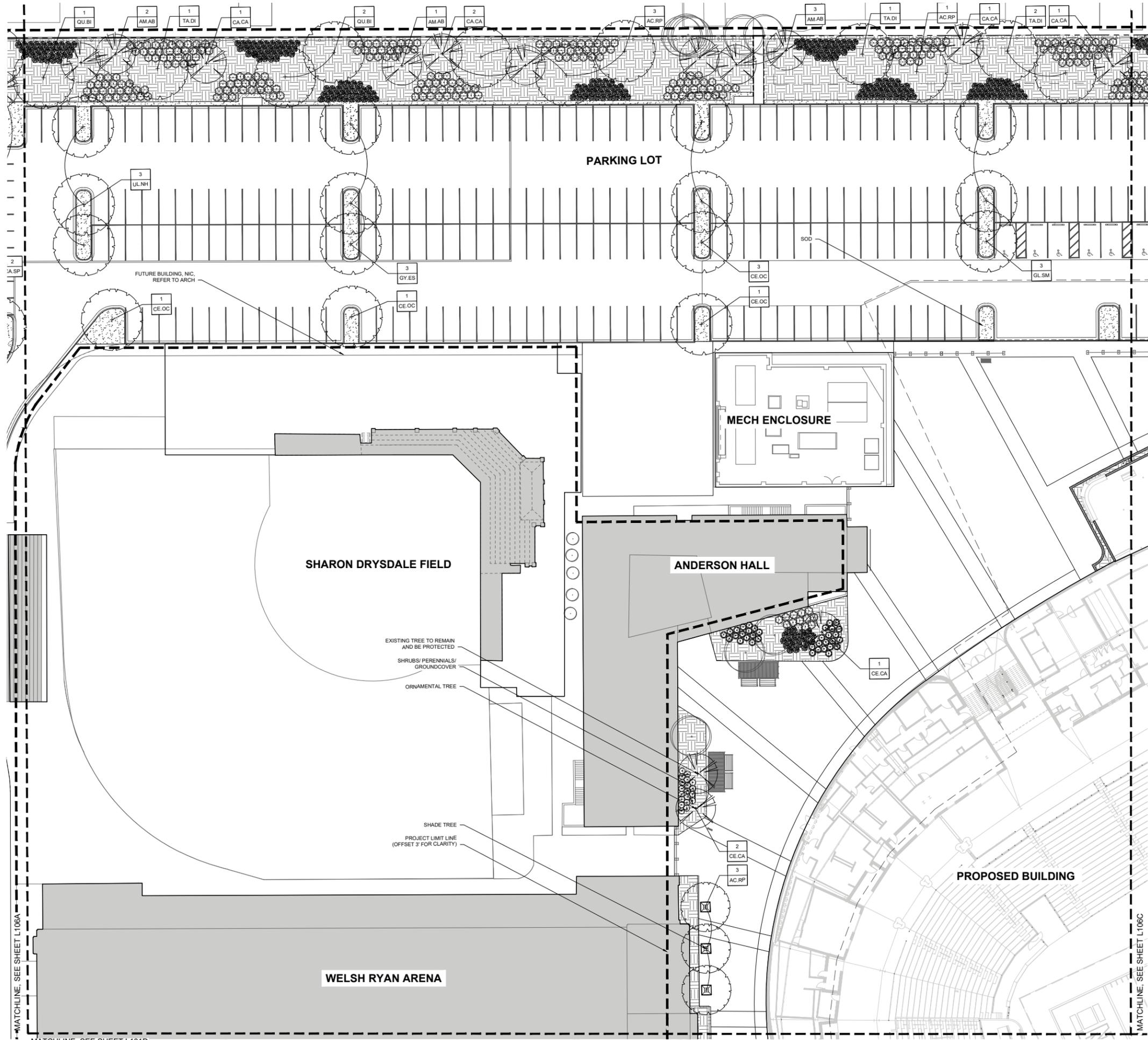
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HNTB
Perkins & Will
 AUG 11, 2023

LP-12



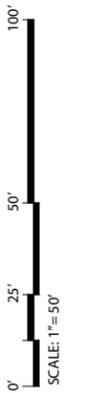
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HNTB
Perkins & Will
AUG 11, 2023

LP-13

MATCHLINE, SEE SHEET L106A

MATCHLINE, SEE SHEET L106C

MATCHLINE, SEE SHEET L101D

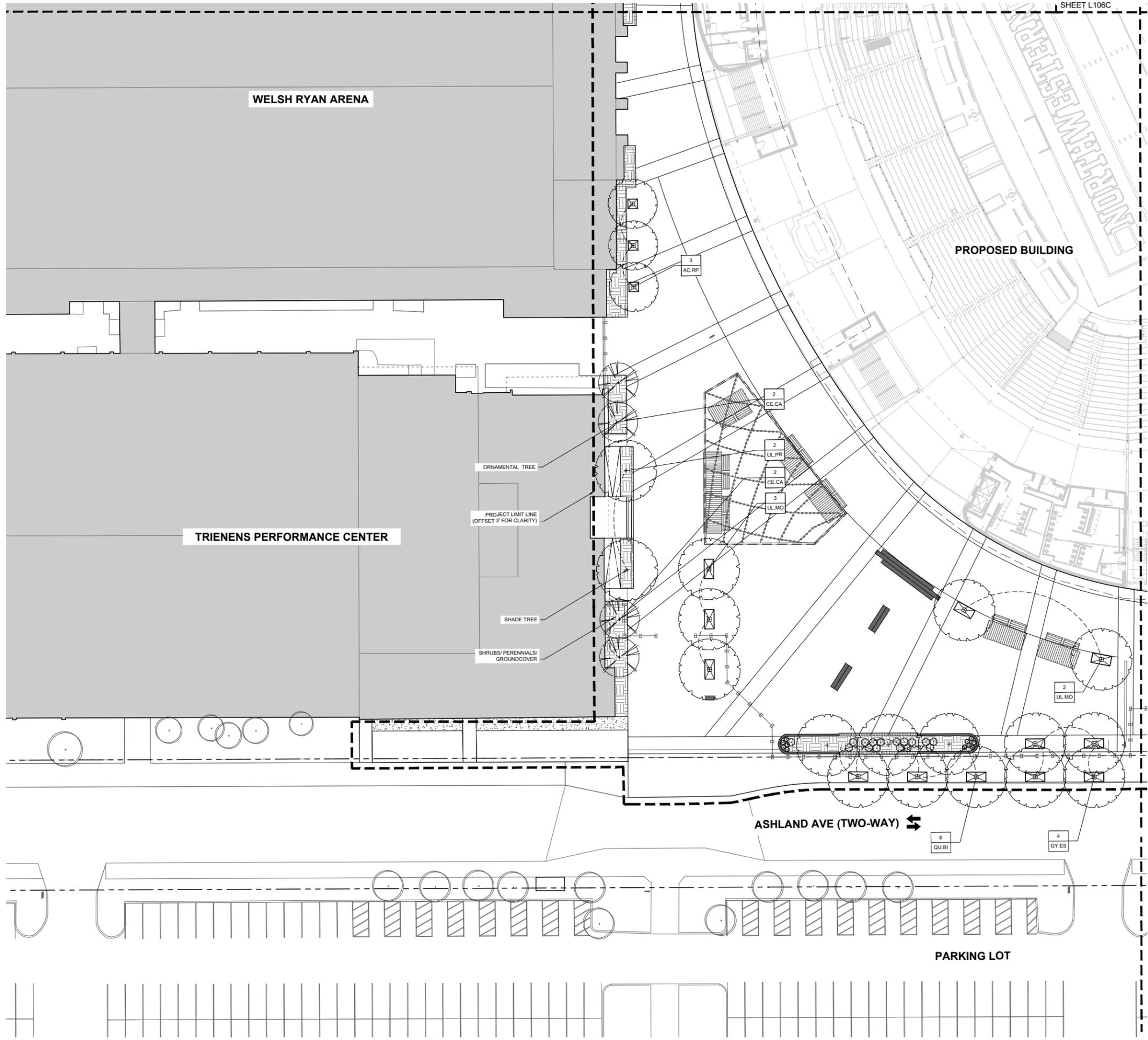
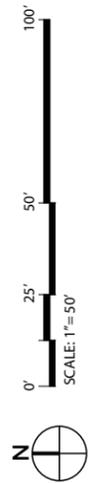


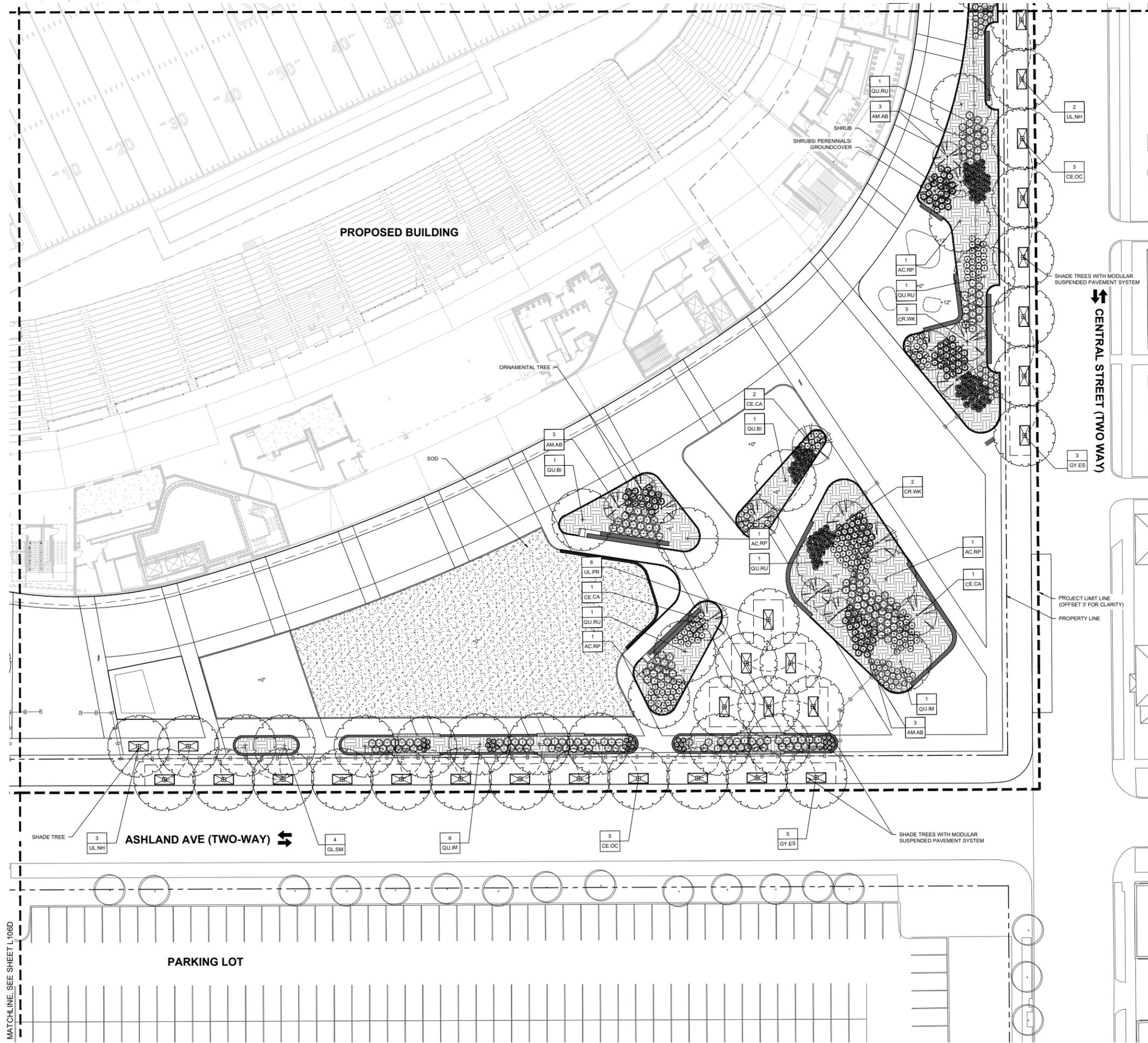
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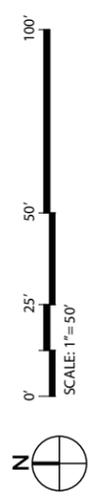


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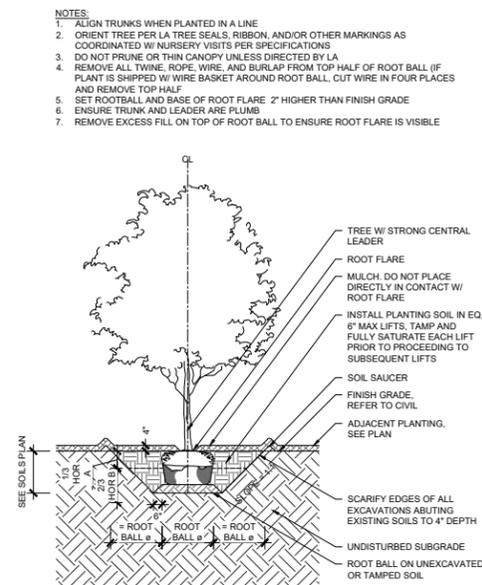
PROPOSED PLANTING - ENLARGED



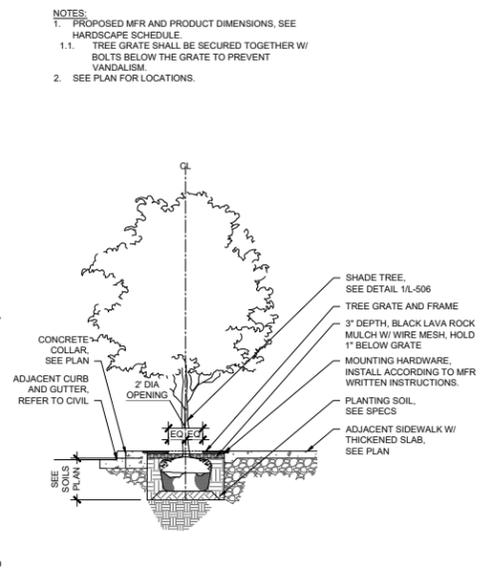
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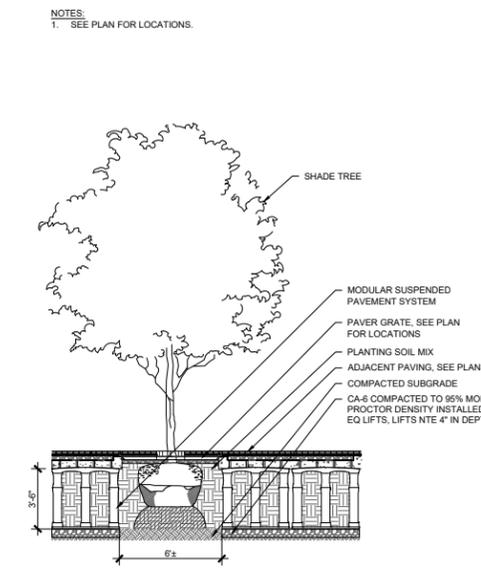
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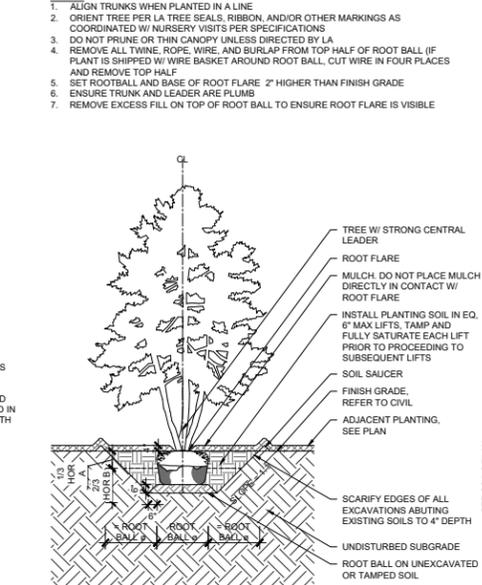
1 SHADE TREE SECTION



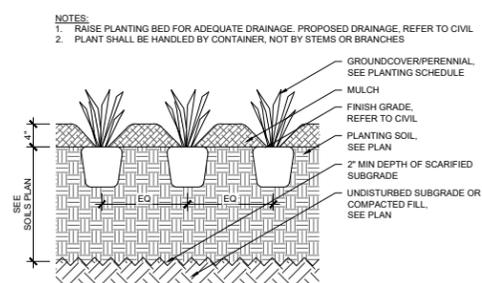
2 SHADE TREE WITHIN PARKWAY GRATE SECTION



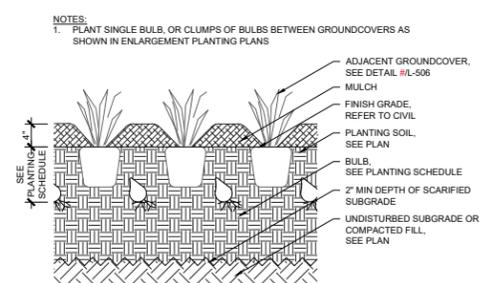
3 SHADE TREE WITH MODULAR SUSPENDED PAVEMENT SYSTEM



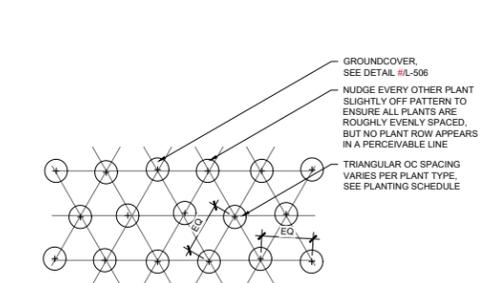
4 MULTI-STEM TREE SECTION



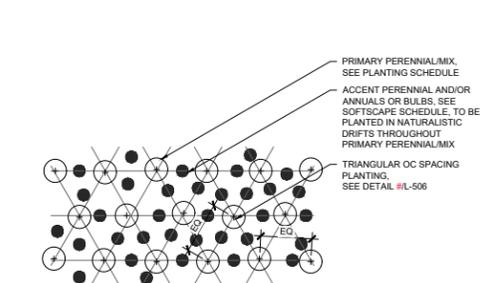
6 GROUNDCOVER/PERENNIAL SECTION



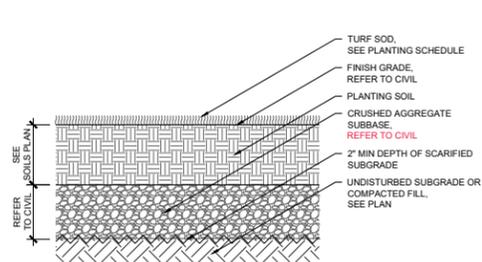
7 BULB SECTION



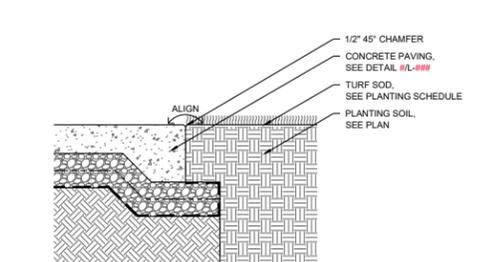
8 TRIANGULAR SPACING PLANTING PLAN



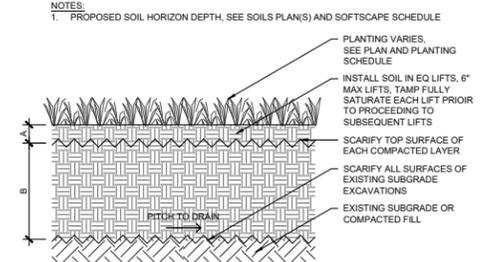
9 GROUNDCOVER INTERPLANTING PLAN



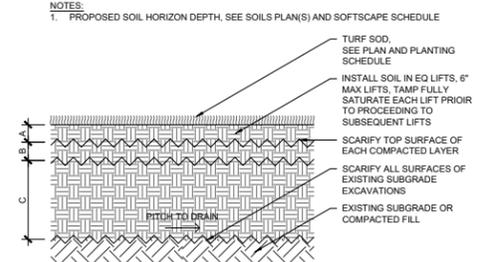
10 SOD SECTION



11 SOD TO CONCRETE PAVING SECTION



12 PLANTING SOIL SECTION



13 SOD PLANTING SOIL SECTION



NU RYAN FIELD PLANT SCHEDULE - STADIUM									
SHADE TREES									
CODE	QUANTITY	SCIENTIFIC NAME	COMMON NAME	ROOT	SIZE	REMARKS	NATIVE/ CULTVAR	ADAPTIVE	QUANTITY BREAKDOWN
AC.RP	13	<i>Acer rubrum</i> 'Frank Jr.' PP #16,769	Redpoint® Red Maple	B&B	4" cal	6' clear branch height, Matching	yes	yes	TOTAL NUMBER OF PROPOSED 4" CAL SHADE TREES: (69)
CE.OC	8	<i>Celtis occidentalis</i>	Common Hackberry	B&B	4" cal	6' clear branch height, Matching	yes	yes	
GL.SM	7	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Shademaster'	Shademaster Honey Locust	B&B	4" cal	6' clear branch height, Matching	yes	yes	
GY.ES	12	<i>Gymnocladus dioica</i> 'Espresso'	Espresso Kentucky Coffeetree	B&B	4" cal	6' clear branch height, Matching	yes	yes	
QU.BI	9	<i>Quercus bicolor</i>	Swamp White Oak	B&B	4" cal	6' clear branch height, Matching	yes	yes	
QU.IM	9	<i>Quercus imbricaria</i>	Shingle Oak	B&B	4" cal	6' clear branch height, Matching	yes	yes	
QU.RU	6	<i>Quercus rubra</i>	Northern Red Oak	B&B	4" cal	6' clear branch height, Matching	yes	yes	
UL.NH	6	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	B&B	4" cal	6' clear branch height, Matching	no	yes	
UL.MO	8	<i>Ulmus</i> 'Morton Glossy'	Triumph Elm	B&B	4" cal	6' clear branch height, Matching	no	yes	
UL.PR	8	<i>Ulmus americana</i> 'Princeton'	Princeton Elm	B&B	4" cal	6' clear branch height, Matching	yes	yes	
ORNAMENTAL TREES									
AM.AB	15	<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	B&B	8' ht, Multi	Multi stem, with a minimum of 5-8, 2" cal canes	yes	yes	TOTAL NUMBER OF PROPOSED 2" CAL ORNAMENTAL TREES: (37)
CE.CA	14	<i>Cercis canadensis</i>	Eastern Redbud	B&B	10' ht, Multi	Multi stem, with a minimum of 3-5, 2" cal canes. Northern Strain only	yes	yes	TOTAL PROPOSED CALIPER INCHES: (74")
CR.WK	8	<i>Crataegus viridis</i> 'Winter King'	Winter King Hawthorn	B&B	2" cal		yes	yes	
SHRUBS									
CO.BC		<i>Cornus sericea</i> 'Bergeson Compact'	Bergeson Compact Red twig Dogwood	cont	24" ht	42" o.c.	yes	yes	TOTAL PLANTING AREA: 30,000 SF 12,500 SF @ 36" o.c. = 1,080 Approximately (1,300) 5 gallon shrubs
DI.KO		<i>Diervilla</i> Kodiak® Orange	Kodiak Orange Bush Honeysuckle	cont	24" w	36" o.c.	yes	yes	
HY.LI		<i>Hydrangea arborescens</i> 'NCHA8' LIMETTA	Invincibelle Limetta Smooth Hydrangea	cont	18" ht	30" o.c.	yes	yes	
HY.JA		<i>Hydrangea paniculata</i> 'Jane'	Little Lime Hydrangea	cont	24" ht	36" o.c.	no	yes	
RH.GL		<i>Rhus aromatica</i> 'Glow Low'	Grow Low Fragrant Sumac	cont	24" w	30" o.c.	yes	yes	
RO.WS		<i>Rosa rugosa</i> 'JRCruwil'	Wild Spice Rose	cont	18" ht	30" o.c.	no	yes	
EVERGREEN SHRUBS									
JU.GO		<i>Juniperus virginiana</i> 'Grey Owl'	Grey Owl Juniper	cont	24" w	48" o.c.	yes	yes	
TA.EV		<i>Taxus x media</i> 'Everlow'	Everlow Yew	cont	24" w	42" o.c.	no	yes	
ORNAMENTAL GRASSES, PERENNIALS, & GROUNDCOVERS									
AL.M		<i>Allium</i> 'Millenium'	Millenium Allium	cont	#1	18" o.c.	no	yes	TOTAL PLANTING AREA: 30,000 SF PERENNIALS / GRASSES @ 60% of area: 17,500 SF Approximately (9,000) 1 gallon perennials
AM.BI		<i>Amsonia</i> 'Blue Ice'	Blue Ice Blue Star	cont	#1	18" o.c.	yes	yes	
AM.SC		<i>Amsonia tabernaemontana</i> 'Storm Cloud'	Storm Cloud Blue Star	cont	#1	18" o.c.	yes	yes	
BA.PS		<i>Baptisia australis</i> 'Purple Smoke'	Purple Smoke False Indigo	cont	#2	24" o.c.	yes	yes	
CA.KF		<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Feather Reed Grass	cont	#2	21" o.c.	no	yes	
CA.NE		<i>Calamintha nepeta</i> ssp. <i>Nepeta</i>	Lesser Calamint	cont	#1	15" o.c.	no	yes	
CE.PL		<i>Ceratostigma plumbaginoides</i>	Hardy Plumbago	pot	4"	8" o.c.	no	yes	
EC.AL		<i>Echinacea purpurea</i> 'Alba'	White Purple Coneflower	cont	#1	18" o.c.	yes	yes	
GE.BI		<i>Geranium x cantabrigiense</i> 'Biokovo'	Biokovo Cranesbill	cont	#1	15" o.c.	no	yes	
HE.PP		<i>Heuchera</i> 'Palace Purple'	Palace Purple Coral Bells	cont	#1	18" o.c.	no	yes	
PAN.W		<i>Panicum virgatum</i> 'Northwind'	Northwind Switch Grass	cont	#2	24" o.c.	yes	yes	
PY.MU		<i>Pycnanthemum muticum</i>	Mountain Mint	cont	#1	18" o.c.	yes	yes	
SAM.N		<i>Salvia x sylvestris</i> 'Mainacht' MAY NIGHT	May Night Salvia	cont	#1	18" o.c.	no	yes	
SC.CA		<i>Schizachyrium scoparium</i> 'Standing Ovation'	Standing Ovation Little Bluestem	cont	#1	18" o.c.	yes	yes	
SE.AU		<i>Sesleria autumnalis</i>	Autumn Moor Grass	cont	#1	12" o.c.	no	yes	
SP.TA		<i>Sporobolus heterolepis</i>	Prairie Dropseed	cont	#1	18" o.c.	yes	yes	
SY.PD		<i>Symphoricarpon novae-angliae</i> 'Purple Dome'	Purple Dome Aster	cont	#1	15" o.c.	yes	yes	
VBV		<i>Vinca minor</i> 'Bowles Variety'	Bowles Variety Periwinkle	pot	4"	8" o.c.	no	yes	
BULBS									
AL.ME		<i>Allium</i> 'Mount Everest'	Mount Everest Flowering Onion	bulb	18 cm	1 per sf	n/a	n/a	TOTAL PLANTING AREA: 30,000 SF Bulbs @ 10% of area: 3,000 SF 3,000 SF @ 3 per SF= 9,000 Approximately (9,000) bulbs
AL.FS		<i>Allium</i> 'Globemaster'	Globemaster Flowering Onion	bulb	22 cm	1 per sf	n/a	n/a	
LE.GG		<i>Leucjum aestivum</i> 'Gravelly Giant'	Summer Snowflake	bulb	14 cm	4 per sf	n/a	n/a	
NA.MH		<i>Narcissus</i> 'Mount Hood'	Mount Hood Daffodil	bulb	16 cm	2 per sf	n/a	n/a	
TU.NE		<i>Tulipa</i> Triumph 'Negrita'	Purple Trump Tulip	bulb	12 cm	2 per sf	n/a	n/a	

TOTAL PROPOSED CALIPER INCHES FOR TREES AROUND STADIUM (432")

* Native or native cultivar species that support monarch butterflies

1 PLANT PALETTE - STADIUM

NU RYAN FIELD PLANT SCHEDULE - PARKING LOT / LANDSCAPED BUFFER									
SHADE TREES									
CODE	QUANTITY	SCIENTIFIC NAME	COMMON NAME	ROOT	SIZE	REMARKS	NATIVE/ CULTVAR	ADAPTIVE	QUANTITY BREAKDOWN
AC.RP	11	<i>Acer rubrum</i> 'Frank Jr.' PP #16,769	Redpoint® Red Maple	B&B	4" cal	6' clear branch height, Matching	yes	yes	TOTAL NUMBER OF PROPOSED 4" CAL SHADE TREES: (77)
CA.SP	8	<i>Catalpa speciosa</i>	Northern Catalpa	B&B	4" cal	6' clear branch height, Matching	yes	yes	
CE.OC	14	<i>Celtis occidentalis</i>	Common Hackberry	B&B	4" cal	6' clear branch height, Matching	yes	yes	
GL.SM	7	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Shademaster'	Shademaster Honey Locust	B&B	4" cal	6' clear branch height, Matching	yes	yes	
GY.ES	8	<i>Gymnocladus dioica</i> 'Espresso'	Espresso Kentucky Coffeetree	B&B	4" cal	6' clear branch height, Matching	yes	yes	
QU.BI	12	<i>Quercus bicolor</i>	Swamp White Oak	B&B	4" cal	6' clear branch height, Matching	yes	yes	
QU.RU	2	<i>Quercus rubra</i>	Northern Red Oak	B&B	4" cal	6' clear branch height, Matching	yes	yes	
TA.DI	9	<i>Taxodium distichum</i>	Bald Cypress	B&B	4" cal	6' clear branch height, Matching	yes	yes	
UL.NH	6	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	B&B	4" cal	6' clear branch height, Matching	no	yes	
ORNAMENTAL TREES									
AM.AB	19	<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	B&B	10' ht, Multi	Multi stem, with a minimum of 5-8, 2" cal canes	yes	yes	TOTAL NUMBER OF PROPOSED 2" CAL ORNAMENTAL TREES: (30)
CA.CA	11	<i>Carpinus caroliniana</i>	American Hornbeam	B&B	2" cal		yes	yes	TOTAL PROPOSED CALIPER INCHES: (60")
SHRUBS									
AR.ME		<i>Aronia melanocarpa</i> 'Autumn Magic'	Autumn Magic Black Chokeberry	cont	24" ht	48" o.c.	yes	yes	TOTAL PLANTING AREA: 49,500 SF SHRUBS AREA @ 25% = 12,375 12,375 SF @ 36" o.c. = 1,400 Approximately (1,400) 5 gallon shrubs
CO.CA		<i>Cornus sericea</i> 'Cardinal'	Cardinal Red Twig Dogwood	cont	36" ht	48" o.c.	yes	yes	
IT.MO		<i>Itea virginica</i> 'Morton'	Scarlet Beauty™ Virginia Sweetspire	cont	24" ht	48" o.c.	yes	yes	
PERENNIALS									
AS.SY		<i>Asclepias syriaca</i>	Common Milkweed	cont	#1	18" o.c.		yes	TOTAL PLANTING AREA: 49,500 SF PERENNIALS AREA @ 15% = 7,400 7,400 SF @ 18" o.c. = 3,800 Approximately (3,800) 1 gallon perennials
AS.TU		<i>Asclepias tuberosa</i>	Butterflyweed	cont	#1	18" o.c.		yes	
AS.IN		<i>Asclepias incarnata</i>	Swamp Milkweed	cont	#1	21" o.c.	yes	yes	
EC.PU		<i>Echinacea purpurea</i>	Purple coneflower	cont	#1	18" o.c.	yes	yes	
MO.FI		<i>Monarda fistulosa</i>	Wild Bergamot	cont	#1	18" o.c.	yes	yes	
PAN.V		<i>Panicum virgatum</i>	Switchgrass	cont	#2	24" o.c.	yes	yes	
VE.M		<i>Veronicastrum virginicum</i>	Culver's Root	cont	#1	21" o.c.	yes	yes	

TOTAL PROPOSED CALIPER INCHES FOR TREES IN PARKING LOT / LANDSCAPE BUFFER: (368")

* Native or native cultivar species that support monarch butterflies

NU RYAN FIELD PLANT SCHEDULE - PARKING LOT / LANDSCAPED BUFFER (TOTAL AREA 29,700 SF)								QUANTITY BREAKDOWN	
CODE	BOTANICAL NAME	COMMON NAME	SEED/OZ	OZ/ACRE	LB/ACRE	% BY WEIGHT	% BY SEED COUNT		
Grasses, Sedges, & Rushes									
CALCAN	<i>Calamagrostis canadensis</i>	Blue Joint Grass	28,000	0.75	0.06	0.3	2.29		
CXBREV	<i>Carex breviflora</i>	Plains Oval Sedge	29,000	2	0.13	0.79	0.63		
CXCRIS	<i>Carex cristata</i>	Crested Oval Sedge	58,000	1.5	0.09	0.59	0.95		
CXMOLE	<i>Carex molesta</i>	Field Oval Sedge	25,000	4	0.25	1.58	1.09		
CXSCOP	<i>Carex scoparia</i>	Lance-fruited Oval Sedge	84,000	2	0.13	0.79	1.83		
CXSTIP	<i>Carex stipata</i>	Common Fox Sedge	34,000	2	0.13	0.79	0.74		
CXVULP	<i>Carex vulpinoidea</i>	Brown Fox Sedge	100,000	4	0.25	1.58	4.36		
ELEPAL	<i>Eleocharis palustris</i>	Great Spike Rush	51,000	1	0.06	0.4	0.56		
ELYVIR	<i>Elymus virginicus</i>	Virginia Wild Rye	4,200	48	3	18.96	2.2		
GLYSTR	<i>Glyceria striata</i>	Fowl Manna Grass	90,000	2	0.13	0.79	1.96		
JUNDUD	<i>Juncus dudleyi</i>	Dudley's Rush	3,200,000	1	0.06	0.4	34.91		
PANVIR	<i>Panicum virgatum</i>	Switch Grass	14,000	16	1	6.32	2.44		
SCIATR	<i>Scirpus atrovirens</i>	Dark-green Bulrush	460,000	0.13	0.01	0.05	0.63		
SPAPEC	<i>Spartina pectinata</i>	Cord Grass	6,600	32	2	12.64	2.3		
					Grass/Sedge Subtotals	7.273	45.98	56.9	
Wildflowers									
ALLCER	<i>Allium cernuum</i>	Nodding Onion	7,600	12	0.75	4.74	0.99		
ASCINC	<i>Asclepias incarnata</i>	Swamp Milkweed	4,800	6	0.38	2.37	0.31		
BIDCER	<i>Bidens cernua</i>	Nodding Bur Marigold	21,000	1.5	0.09	0.59	0.34		
BOLAST	<i>Boltonia asteroides</i>	False Aster	160,000	0.5	0.03	0.2	0.87		
CHAFAS	<i>Chamaecrista fasciculata</i>	Partridge Pea	2,700	16	1	6.32	0.47		
CORTRI	<i>Coreopsis tripteris</i>	Tall Coreopsis	14,000	4	0.25	1.58	0.61		
DESCAA	<i>Desmodium canadense</i>	Showy Tick Trefoil	5,500	3	0.19	1.19	0.18		
DOELUMB	<i>Doellingeria umbellata</i>	Flat-topped Aster	67,000	1.5	0.09	0.59	1.1		
ECHPUR	<i>Echinacea purpurea</i>	Purple Coneflower	6,600	4	0.25	1.58	0.29		
ERYJUC	<i>Eryngium yuccifolium</i>	Rattlesnake Master	7,500	16	1	6.32	1.31		
EUPPER	<i>Eupatorium perfoliatum</i>	Boneset	160,000	0.25	0.02	0.1	0.44		
ELUTGRA	<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	350,000	1	0.06	0.4	3.82		
ELUTMAC	<i>Euthamia maculatum</i>	Spotted Joe Pye Weed	95,000	0.9	0.03	0.2	0.52		
HELALT	<i>Helenium autumnale</i>	Sneezeweed	130,000	1	0.06	0.4	1.42		
LIAPYC	<i>Liatris pycnostachya</i>	Prairie Blazing Star	11,000	6	0.38	2.37	0.72		
LIASPI	<i>Liatris spicata</i>	March Blazing Star	11,000	2	0.13	0.79	0.24		
MONFIS	<i>Monarda fistulosa</i>	Wild Bergamot	70,000	4	0.25	1.58	3.05		
PENDIG	<i>Penstemon digitalis</i>	Foxglove Beardtongue	130,000	2	0.13	0.79	2.84		
PYCVIR	<i>Pycnanthemum virginicum</i>	Virginia Mountain Mint	220,000	2	0.13	0.79	4.8		
RUDHIR	<i>Rudbeckia hirta</i>	Black-eyed Susan	92,000	8	0.5	3.16	8.03		
RUDSUB	<i>Rudbeckia subtomentosa</i>	Sweet Black-eyed Susan	43,000	2	0.13	0.79	0.94		
RUDTRI	<i>Rudbeckia triloba</i>	Brown-eyed Susan	34,000	2	0.13	0.79	0.74		
SILLAC	<i>Siphium laciniatum</i>	Compass Plant	660	6	0.38	2.37	0.04		
SILTER	<i>Siphium teranthinaceum</i>	Prairie Dock	1,000	3	0.19	1.19	0.03		
SOLRID	<i>Solidago rigida</i>	Riddell's Goldenrod	93,000	0.5	0.03	0.2	0.51		
SOLRIG	<i>Solidago rigida</i>	Stiff Goldenrod	41,000	4	0.25	1.58	1.79		
SYMNOV	<i>Symphoricarpon novae-angliae</i>	New England Aster	66,000	3	0.19	1.19	2.16		
THADAS	<i>Thalictrum dasycarpum</i>	Purple Meadow Rue	11,000	2	0.13	0.79	0.24		
TRAOHI	<i>Tradescantia ohioensis</i>	Ohio Spiderwort	8,000	12	0.75	4.74	1.05		
VERHAS	<i>Verbena hastata</i>	Blue Vervain	93,000	2	0.13	0.79	2.03		
VERFAS	<i>Vernonia fasciculata</i>	Common Ironweed	24,000	1	0.06	0.4	0.26		



1 CAST-IN-PLACE CONCRETE



2 CAST-IN-PLACE CONCRETE-ACID ETCH



3 PEDESTRIAN UNIT PAVERS AND PERMEABLE UNIT PAVERS - TYPE 1



4 PERMEABLE UNIT PAVERS - TYPE 2



5 PERMEABLE UNIT PAVERS - TYPE 3



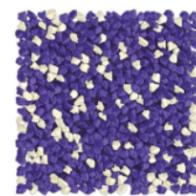
1 CORN HOLE GAMES



2 BICYCLE RACK



3 BICYCLE REPAIR STATION



6 PIP RUBBER SURFACING



7 AGGREGATE PAVING



8 CONCRETE SEATWALL



9 RAISED CONCRETE CURB



10 6H ORNAMENTAL METAL FENCE



4 HANDRAIL



5 CATENARY OVERHEAD LIGHTING



11 4.5H & 6H ORNAMENTAL WELDED WIRE FENCE



12 TRASH/RECYCLING RECEPTACLES



13 DRINKING FOUNTAIN



14 REMOVABLE BOLLARD



15 TREE GRATE



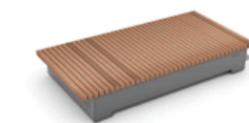
6 PEDESTRIAN POLE LIGHTING



7 INTEGRAL LINEAR BENCH LIGHTING



16 WOOD SEATWALL TOPPER



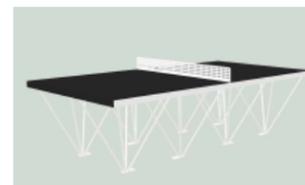
17 GROUP PLATFORM SEATING



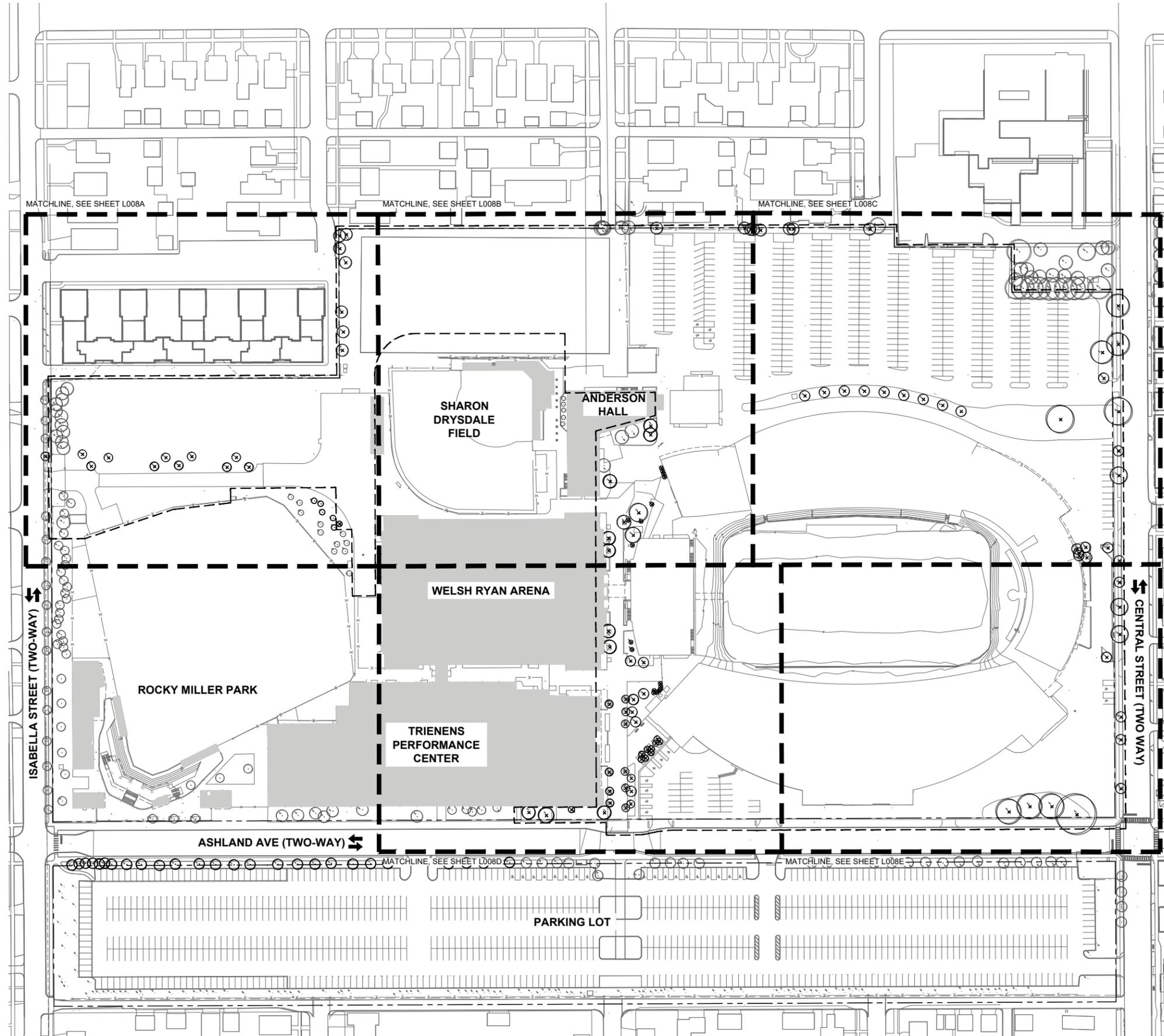
18 BLEACHER SEATING



19 MOVEABLE TABLE & CHAIRS

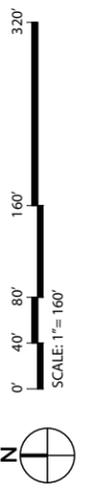


20 PING PONG TABLE

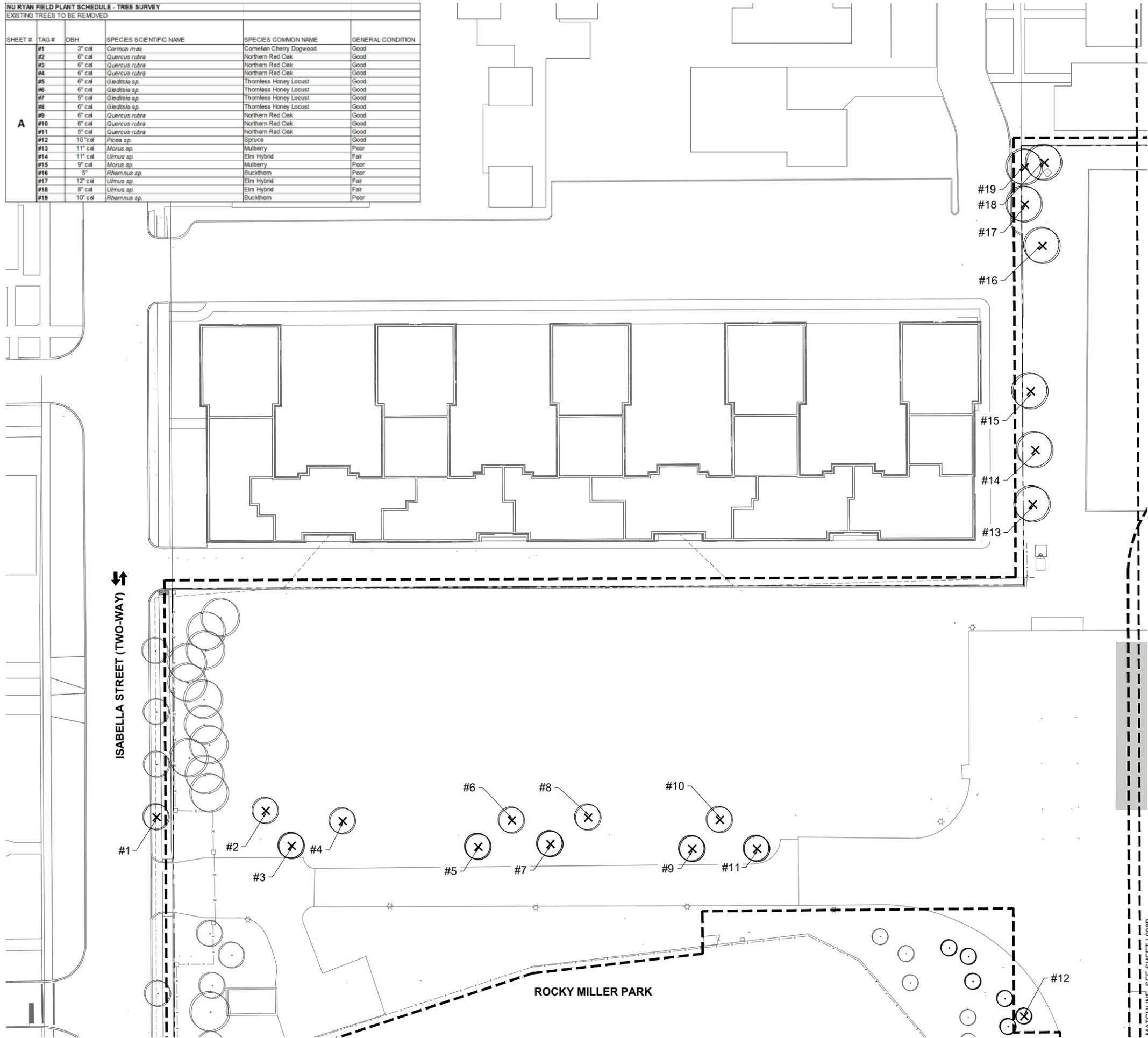


- PROPERTY LINE
- - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
- EXISTING TREE TO REMAIN AND BE PROTECTED
- ⊗ EXISTING TREE TO BE REMOVED

TREE PRESERVATION PLAN



NU RYAN FIELD PLANT SCHEDULE - TREE SURVEY					
EXISTING TREES TO BE REMOVED					
SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION
A	#1	3" cal	<i>Cornus mas</i>	Cornelian Cherry Dogwood	Good
	#2	8" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
	#3	8" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
	#4	6" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
	#5	6" cal	<i>Gleditsia sp.</i>	Thornless Honey Locust	Good
	#6	6" cal	<i>Gleditsia sp.</i>	Thornless Honey Locust	Good
	#7	5" cal	<i>Gleditsia sp.</i>	Thornless Honey Locust	Good
	#8	6" cal	<i>Gleditsia sp.</i>	Thornless Honey Locust	Good
	#9	8" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
	#10	6" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
	#11	5" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
	#12	10" cal	<i>Picea sp.</i>	Spruce	Good
	#13	11" cal	<i>Morus sp.</i>	Mulberry	Poor
	#14	11" cal	<i>Ulmus sp.</i>	Elm Hybrid	Fair
	#15	9" cal	<i>Morus sp.</i>	Mulberry	Poor
	#16	5"	<i>Rhamnus sp.</i>	Buckthorn	Poor
	#17	12" cal	<i>Ulmus sp.</i>	Elm Hybrid	Fair
	#18	8" cal	<i>Ulmus sp.</i>	Elm Hybrid	Fair
	#19	10" cal	<i>Rhamnus sp.</i>	Buckthorn	Poor



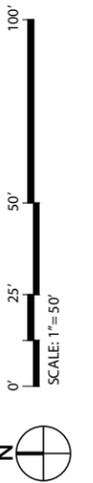

 landscape
architecture
urban design

--- PROPERTY LINE
 - - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
 ○ EXISTING TREE TO REMAIN AND BE PROTECTED
 ○ X EXISTING TREE TO BE REMOVED



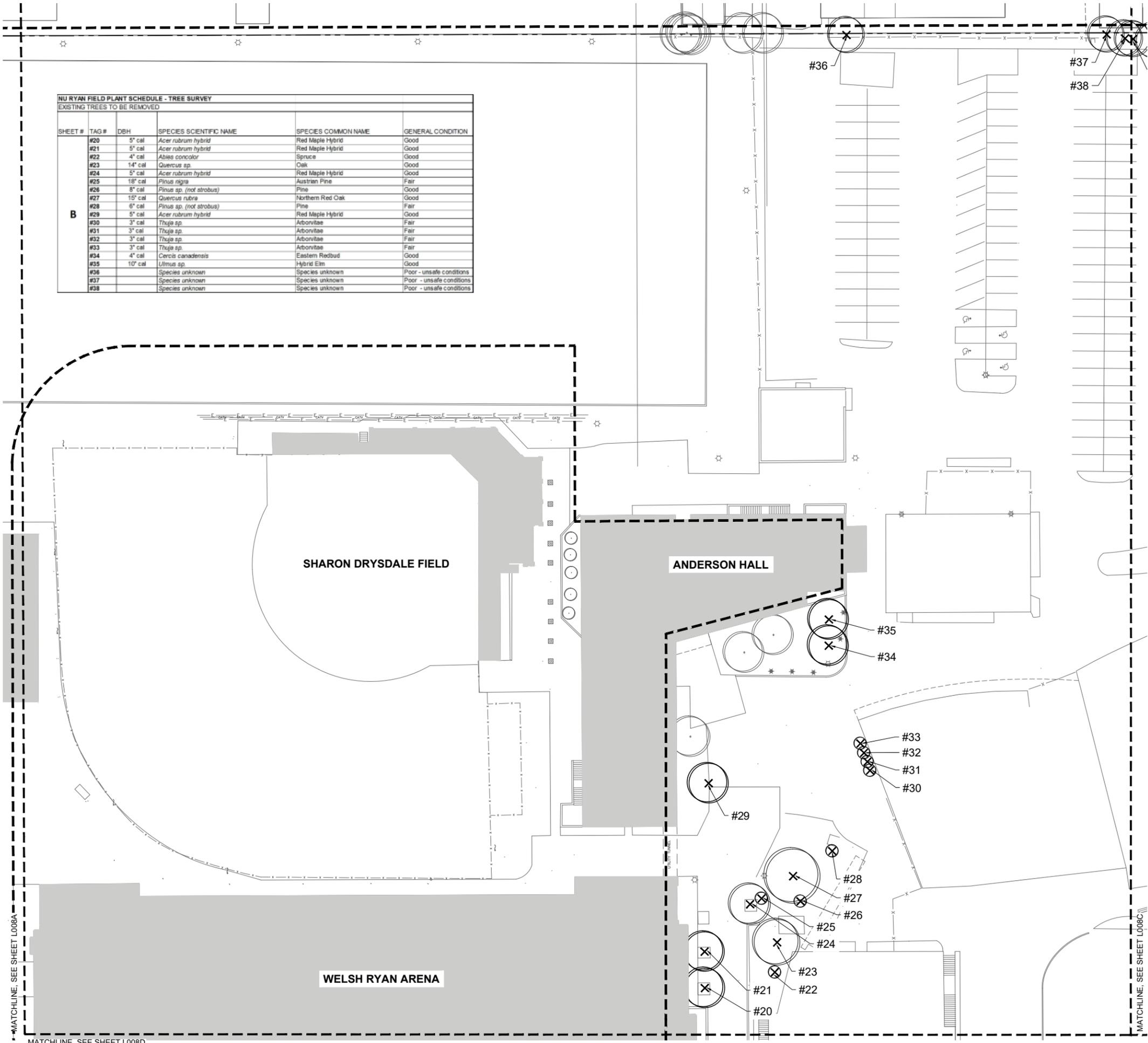
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RYAN FIELD REDEVELOPMENT
 PLANNED DEVELOPMENT APPLICATION

TREE PRESERVATION PLAN - ENLARGED



MATCHLINE - SEE SHEET L008B

NU RYAN FIELD PLANT SCHEDULE - TREE SURVEY						
EXISTING TREES TO BE REMOVED						
SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION	
B	#20	5" cal	<i>Acer rubrum hybrid</i>	Red Maple Hybrid	Good	
	#21	5" cal	<i>Acer rubrum hybrid</i>	Red Maple Hybrid	Good	
	#22	4" cal	<i>Abies concolor</i>	Spruce	Good	
	#23	14" cal	<i>Quercus sp.</i>	Oak	Good	
	#24	5" cal	<i>Acer rubrum hybrid</i>	Red Maple Hybrid	Good	
	#25	18" cal	<i>Pinus nigra</i>	Austrian Pine	Fair	
	#26	8" cal	<i>Pinus sp. (not strobus)</i>	Pine	Good	
	#27	15" cal	<i>Quercus rubra</i>	Northern Red Oak	Good	
	#28	6" cal	<i>Pinus sp. (not strobus)</i>	Pine	Fair	
	#29	5" cal	<i>Acer rubrum hybrid</i>	Red Maple Hybrid	Good	
	#30	3" cal	<i>Thuja sp.</i>	Arborvitae	Fair	
	#31	3" cal	<i>Thuja sp.</i>	Arborvitae	Fair	
	#32	3" cal	<i>Thuja sp.</i>	Arborvitae	Fair	
	#33	3" cal	<i>Thuja sp.</i>	Arborvitae	Fair	
	#34	4" cal	<i>Cercis canadensis</i>	Eastern Redbud	Good	
	#35	10" cal	<i>Ulmus sp.</i>	Hybrid Elm	Good	
	#36			Species unknown	Species unknown	Poor - unsafe conditions
	#37			Species unknown	Species unknown	Poor - unsafe conditions
#38			Species unknown	Species unknown	Poor - unsafe conditions	





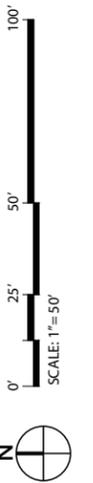
 LANDSCAPE ARCHITECTURE
 URBAN DESIGN

- - - - - PROPERTY LINE
 - - - - - PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
 ○ EXISTING TREE TO REMAIN AND BE PROTECTED
 ⊗ EXISTING TREE TO BE REMOVED



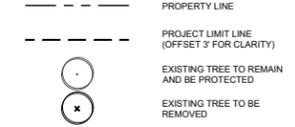
NORTHWESTERN UNIVERSITY
RYAN FIELD REDEVELOPMENT
 PLANNED DEVELOPMENT APPLICATION

TREE PRESERVATION PLAN - ENLARGED

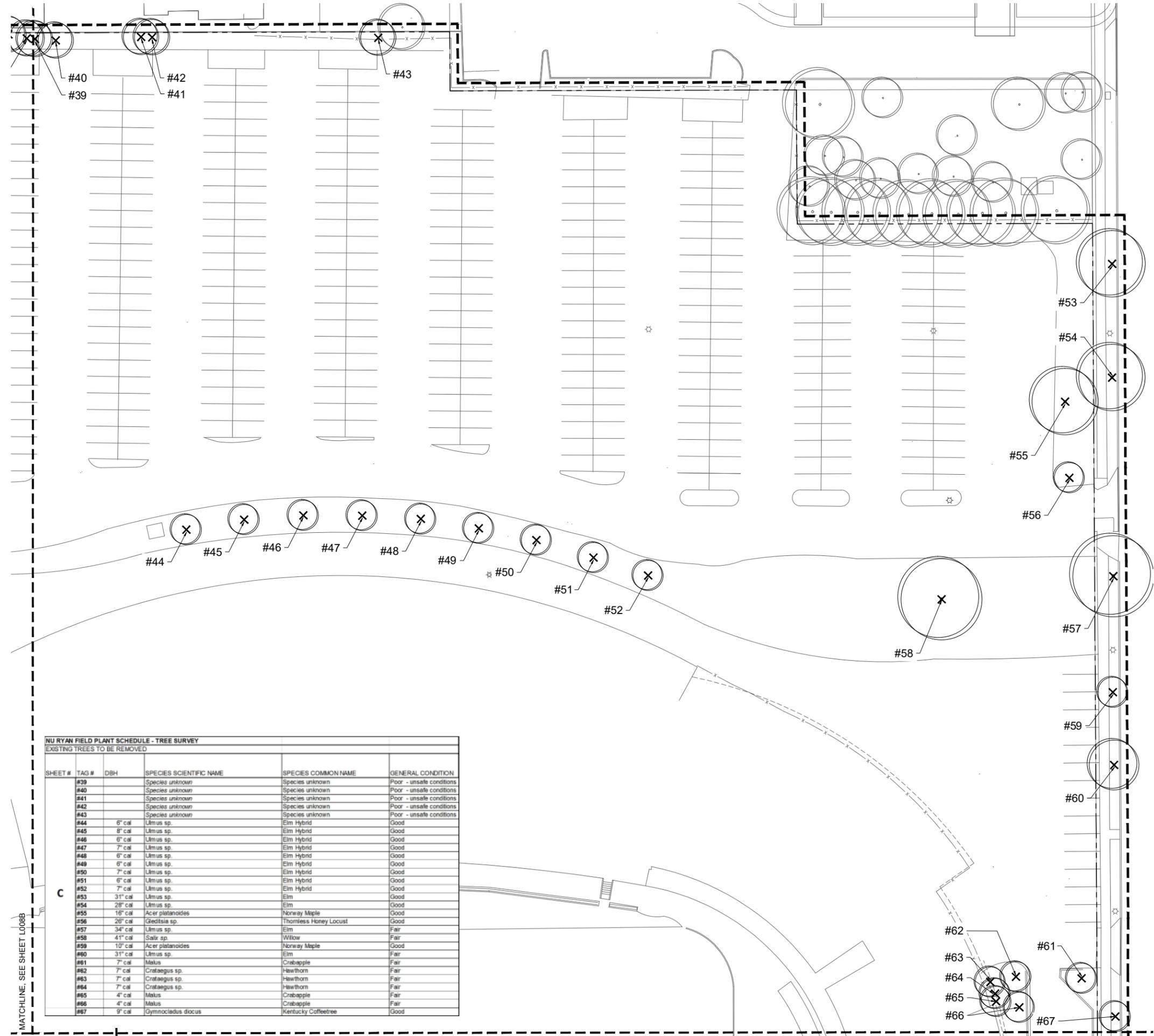




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TREE PRESERVATION PLAN - ENLARGED



NU RYAN FIELD PLANT SCHEDULE - TREE SURVEY
EXISTING TREES TO BE REMOVED

SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION
	#39		Species unknown	Species unknown	Poor - unsafe conditions
	#40		Species unknown	Species unknown	Poor - unsafe conditions
	#41		Species unknown	Species unknown	Poor - unsafe conditions
	#42		Species unknown	Species unknown	Poor - unsafe conditions
	#43		Species unknown	Species unknown	Poor - unsafe conditions
	#44	6" cal	Ulmus sp.	Elm Hybrid	Good
	#45	8" cal	Ulmus sp.	Elm Hybrid	Good
	#46	6" cal	Ulmus sp.	Elm Hybrid	Good
	#47	7" cal	Ulmus sp.	Elm Hybrid	Good
	#48	6" cal	Ulmus sp.	Elm Hybrid	Good
	#49	6" cal	Ulmus sp.	Elm Hybrid	Good
	#50	7" cal	Ulmus sp.	Elm Hybrid	Good
	#51	6" cal	Ulmus sp.	Elm Hybrid	Good
	#52	7" cal	Ulmus sp.	Elm Hybrid	Good
	#53	31" cal	Ulmus sp.	Elm	Good
	#54	28" cal	Ulmus sp.	Elm	Good
	#55	16" cal	Acer platanoides	Norway Maple	Good
	#56	26" cal	Gleditsia sp.	Thornless Honey Locust	Good
	#57	34" cal	Ulmus sp.	Elm	Fair
	#58	41" cal	Salix sp.	Willow	Fair
	#59	10" cal	Acer platanoides	Norway Maple	Good
	#60	31" cal	Ulmus sp.	Elm	Fair
	#61	7" cal	Malus	Crabapple	Fair
	#62	7" cal	Crataegus sp.	Hawthorn	Fair
	#63	7" cal	Crataegus sp.	Hawthorn	Fair
	#64	7" cal	Crataegus sp.	Hawthorn	Fair
	#65	4" cal	Malus	Crabapple	Fair
	#66	4" cal	Malus	Crabapple	Fair
	#67	9" cal	Gymnocladus dioica	Kentucky Coffeetree	Good

MATCHLINE SEE SHEET L008B

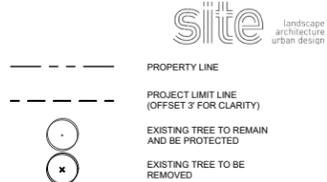
MATCHLINE SEE SHEET L008C MATCHLINE SEE SHEET L008E

NU RYAN FIELD PLANT SCHEDULE - TREE SURVEY					
EXISTING TREES TO BE REMOVED					
SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION
D	#68	16" cal	<i>Pinus nigra</i>	Austrian Pine	Good
D	#69	14" cal	<i>Gleditsia</i> sp.	Thornless Honey Locust	Good
D	#70	2" cal	<i>Amelanchier</i>	Serviceberry	Good
D	#71	6" cal	<i>Gleditsia</i> sp.	Thornless Honey Locust	Poor
D	#72	4" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#73	7" cal	<i>Gleditsia</i> sp.	Thornless Honey Locust	Good
D	#74	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#75	10" cal	<i>Ulmus</i> sp.	Hybrid Elm	Good
D	#76	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#77	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#78	6" cal	<i>Quercus bicolor</i>	Swamp White Oak	Good
D	#79	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#80	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#81	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#82	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#83	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#84	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#85	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#86	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#87	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#88	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#89	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#90	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#91	3" cal	<i>Crataegus</i> sp.	Hawthorn	Good
D	#92	9" cal	<i>Ulmus</i> sp.	Elm Hybrid	Good
D	#93	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#94	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#95	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#96	6" cal	<i>Quercus bicolor</i>	Swamp White Oak	Good
D	#97	6" cal	<i>Quercus rubra</i>	Northern Red Oak	Good
D	#98	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#99	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#100	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#101	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#102	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#103	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#104	3" cal	<i>Thuja</i> sp.	Arborvitae	Fair
D	#105	6" cal	<i>Gleditsia</i> sp.	Thornless Honey Locust	Good
D	#106	7" cal	<i>Ulmus</i> sp.	Elm Hybrid	Good
D	#107	5" cal	<i>Abies concolor</i>	White Fir	Good
D	#108	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good
D	#109	3" cal	<i>Picea abies</i>	Norway Spruce	Good
D	#110	5" cal	<i>Acer rubrum</i> sp.	Red Maple Hybrid	Good

WELSH RYAN ARENA

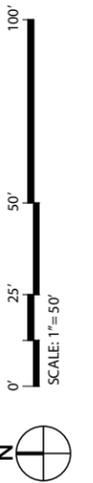
TRIENENS PERFORMANCE CENTER

ASHLAND AVE (TWO-WAY)



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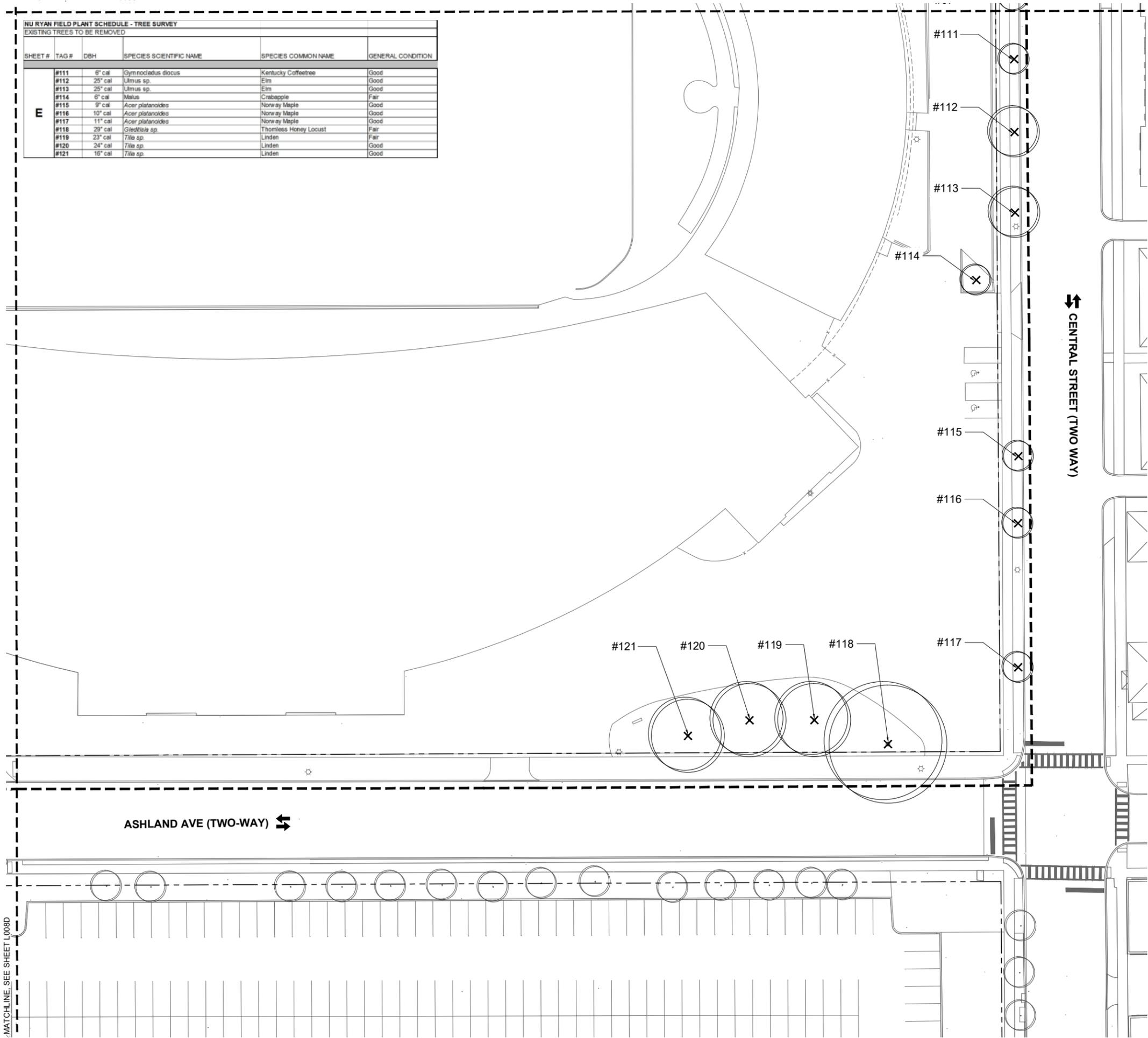
TREE PRESERVATION PLAN - ENLARGED



HNTB
Perkins & Will
AUG 11, 2023

LP-24

NU RYAN FIELD PLANT SCHEDULE - TREE SURVEY					
EXISTING TREES TO BE REMOVED					
SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION
E	#111	6" cal	<i>Gymnocladus dioica</i>	Kentucky Coffeetree	Good
	#112	25" cal	<i>Ulmus sp.</i>	Elm	Good
	#113	25" cal	<i>Ulmus sp.</i>	Elm	Good
	#114	6" cal	<i>Malus</i>	Crabapple	Fair
	#115	9" cal	<i>Acer platanoides</i>	Norway Maple	Good
	#116	10" cal	<i>Acer platanoides</i>	Norway Maple	Good
	#117	11" cal	<i>Acer platanoides</i>	Norway Maple	Good
	#118	29" cal	<i>Gleditsia sp.</i>	Thornless Honey Locust	Fair
	#119	23" cal	<i>Tilia sp.</i>	Linden	Fair
	#120	24" cal	<i>Tilia sp.</i>	Linden	Good
	#121	16" cal	<i>Tilia sp.</i>	Linden	Good





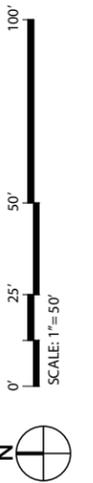
 landscape architecture urban design

PROPERTY LINE
 PROJECT LIMIT LINE (OFFSET 3' FOR CLARITY)
 EXISTING TREE TO REMAIN AND BE PROTECTED
 EXISTING TREE TO BE REMOVED

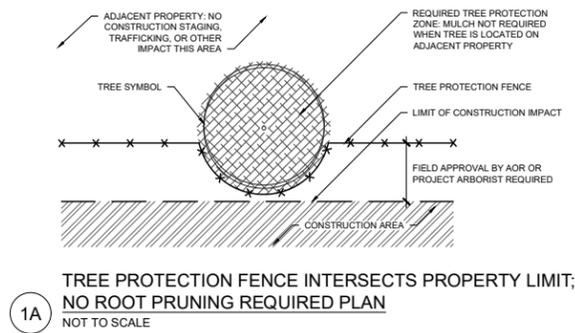


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 PLANNED DEVELOPMENT APPLICATION

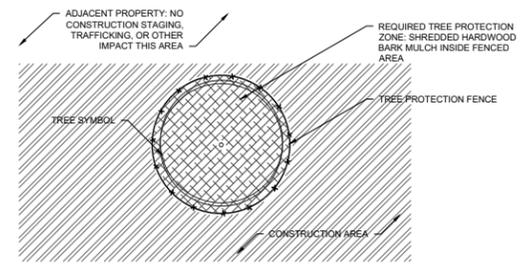
TREE PRESERVATION PLAN - ENLARGED



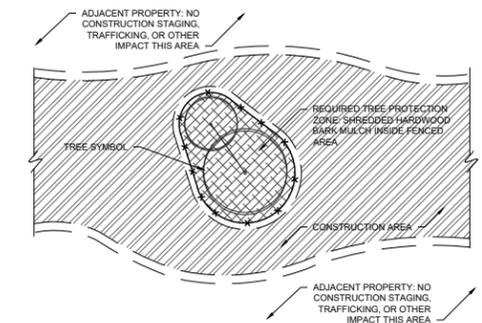
MATCHLINE SEE SHEET L008D



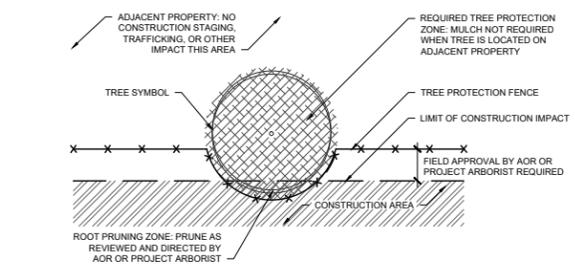
1A TREE PROTECTION FENCE INTERSECTS PROPERTY LIMIT; NO ROOT PRUNING REQUIRED PLAN
NOT TO SCALE



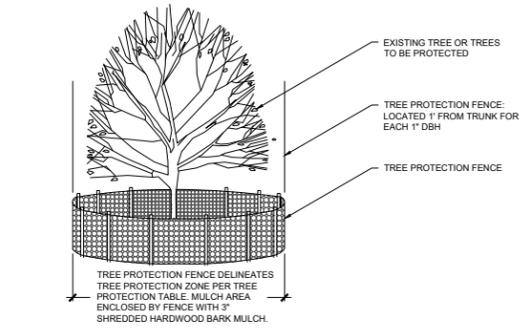
2A TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA PLAN
NOT TO SCALE



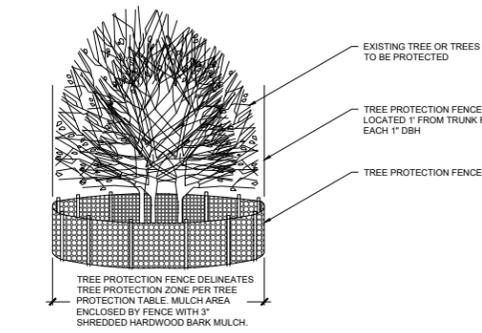
3A GROUP TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA PLAN
NOT TO SCALE



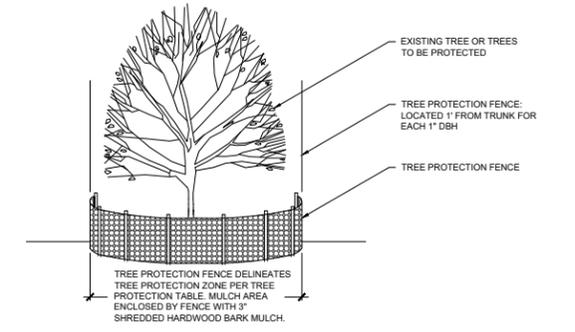
1B TREE PROTECTION FENCE INTERSECTS PROPERTY LIMIT; ROOT PRUNING REQUIRED PLAN
NOT TO SCALE



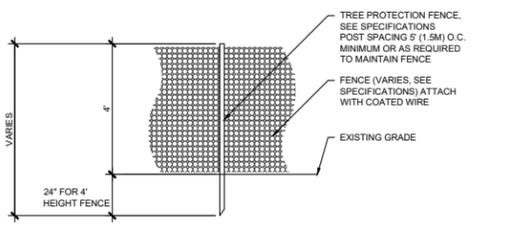
2B TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA ELEVATION
NOT TO SCALE



3B GROUP TREE PROTECTION ENTIRELY WITHIN CONSTRUCTION AREA ELEVATION
NOT TO SCALE



1C TREE PROTECTION FENCE INTERSECTS PROPERTY LIMIT; NO ROOT PRUNING REQUIRED ELEVATION
NOT TO SCALE



4 TREE PROTECTION FENCE
NOT TO SCALE

TREE PROTECTION	FLAG TAPE COLOR	RADIUS OF TREE PROTECTION FENCE FROM TRUNK	MULCH TREE PROTECTION ZONE
ADJACENT PROPERTY	NONE	NONE. TREE PROTECTED BY TREE PROTECTION FENCE AT PROJECT LIMITS	NO
TREE WITH TREE PROTECTION FENCE	GREEN	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH. NOT IN CONTACT WITH THE TRUNK
TREE WITH TREE PROTECTION FENCE, ROOTPRUNED	GREEN & YELLOW	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH. NOT IN CONTACT WITH THE TRUNK
TREE TO BE RELOCATED	BLUE	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH. NOT IN CONTACT WITH THE TRUNK
TREE TO BE REMOVED	RED	NONE. TREES MUST BE REMOVED PRIOR TO START OF CONSTRUCTION	NO

5 TREE PROTECTION TABLE AND NOTES
NOT TO SCALE

*DBH - DIAMETER AT BREAST HEIGHT MEASURED AT 4.5' FROM BASE OF TREE.



EXISTING TREES TO BE REMOVED								
SHEET #	TAG #	DBH	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	GENERAL CONDITION	REPLACEMENT SPECIES GROUP	REPLACEMENT RATE	REQUIRED CALIPER INCHES NEEDED TO BE REPLACED
A	#1	3"	Cornus mas	Cornelian Cherry Dogwood	Good	A	1.25	3.75
	#2	6"	Quercus rubra	Northern Red Oak	Good	A	1.25	7.5
	#3	6"	Quercus rubra	Northern Red Oak	Good	A	1.25	7.5
	#4	6"	Quercus rubra	Northern Red Oak	Good	A	1.25	7.5
	#5	6"	Gleditsia sp.	Thornless Honey Locust	Good	B	0.75	4.5
	#6	6"	Gleditsia sp.	Thornless Honey Locust	Good	B	0.75	4.5
	#7	5"	Gleditsia sp.	Thornless Honey Locust	Good	B	0.75	3.75
	#8	6"	Gleditsia sp.	Thornless Honey Locust	Good	B	0.75	4.5
	#9	6"	Quercus rubra	Northern Red Oak	Good	A	1.25	7.5
	#10	6"	Quercus rubra	Northern Red Oak	Good	A	1.25	7.5
	#11	5"	Quercus rubra	Northern Red Oak	Good	A	1.25	6.25
	#12	10"	Picea sp.	Spruce	Good	B	0.75	7.5
	#13	11"	Morus sp.	Mulberry	Poor	D	0	0
	#14	11"	Ulmus sp.	Elm Hybrid	Fair	B	0.75	8.25
	#15	9"	Morus sp.	Mulberry	Poor	D	0	0
	#16	5"	Rhamnus sp.	Buckhorn	Poor	D	0	0
	#17	12"	Ulmus sp.	Elm Hybrid	Fair	B	0.75	9
	#18	8"	Ulmus sp.	Elm Hybrid	Fair	B	0.75	6
	#19	10"	Rhamnus sp.	Buckhorn	Poor	D	0	0
B	#20	5"	Acer rubrum hybrid	Red Maple Hybrid	Good	B	0.75	3.75
	#21	5"	Acer rubrum hybrid	Red Maple Hybrid	Good	B	0.75	3.75
	#22	4"	Abies concolor	Spruce	Good	B	0.75	3
	#23	14"	Quercus sp.	Oak	Good	A	1.25	17.5
	#24	5"	Acer rubrum hybrid	Red Maple Hybrid	Good	B	0.75	3.75
	#25	18"	Pinus nigra	Austrian Pine	Fair	C	0.5	9
	#26	8"	Pinus sp. (not strobus)	Pine	Good	C	0.5	4
	#27	15"	Quercus rubra	Northern Red Oak	Good	A	1.25	18.75
	#28	6"	Pinus sp. (not strobus)	Pine	Fair	C	0.5	3
	#29	5"	Acer rubrum hybrid	Red Maple Hybrid	Good	B	0.75	3.75
	#30	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75
	#31	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75
	#32	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75
	#33	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75
	#34	4"	Cercis canadensis	Eastern Redbud	Good	A	1.25	5
	#35	10"	Ulmus sp.	Hybrid Elm	Good	B	0.75	7.5
	#36		Species unknown	Species unknown	Poor - unsafe conditions		0	0
	#37		Species unknown	Species unknown	Poor - unsafe conditions		0	0
	#38		Species unknown	Species unknown	Poor - unsafe conditions		0	0
SHEET B REQUIRED CALIPER INCHES TO REPLACE:								97.75
C	#39		Species unknown	Species unknown	Poor - unsafe conditions		0	0
	#40		Species unknown	Species unknown	Poor - unsafe conditions		0	0
	#41		Species unknown	Species unknown	Poor - unsafe conditions		0	0
	#42		Species unknown	Species unknown	Poor - unsafe conditions		0	0
	#43		Species unknown	Species unknown	Poor - unsafe conditions		0	0
	#44	6"	Ulmus sp.	Elm Hybrid	Good	B	0.75	4.5
	#45	8"	Ulmus sp.	Elm Hybrid	Good	B	0.75	6
	#46	6"	Ulmus sp.	Elm Hybrid	Good	B	0.75	4.5
	#47	7"	Ulmus sp.	Elm Hybrid	Good	B	0.75	5.25
	#48	6"	Ulmus sp.	Elm Hybrid	Good	B	0.75	4.5
	#49	6"	Ulmus sp.	Elm Hybrid	Good	B	0.75	4.5
	#50	7"	Ulmus sp.	Elm Hybrid	Good	B	0.75	5.25
	#51	6"	Ulmus sp.	Elm Hybrid	Good	B	0.75	4.5
	#52	7"	Ulmus sp.	Elm Hybrid	Good	B	0.75	5.25
	#53	31"	Ulmus sp.	Elm	Good	Parkway Tree	1.25	38.75
	#54	28"	Ulmus sp.	Elm	Good	Parkway Tree	1.25	35
	#55	16"	Acer platanoides	Norway Maple	Good	C	0.5	8
	#56	26"	Gleditsia sp.	Thornless Honey Locust	Good	B	0.75	19.5
	#57	34"	Ulmus sp.	Elm	Fair	Parkway Tree	1.25	42.5
	#58	41"	Salix sp.	Willow	Fair	C	0.5	20.5
	#59	10"	Acer platanoides	Norway Maple	Good	C	0.5	5
	#60	31"	Ulmus sp.	Elm	Fair	Parkway Tree	1.25	38.75
	#61	7"	Malus	Crabapple	Fair	A	1.25	8.75
	#62	7"	Crataegus sp.	Hawthorn	Fair	A	1.25	8.75
	#63	7"	Crataegus sp.	Hawthorn	Fair	A	1.25	8.75
	#64	7"	Crataegus sp.	Hawthorn	Fair	A	1.25	8.75
	#65	4"	Malus	Crabapple	Fair	A	1.25	5
#66	4"	Malus	Crabapple	Fair	A	1.25	5	
#67	9"	Gymnocladus dioica	Kentucky Coffeetree	Good	Parkway Tree	1.25	11.25	
SHEET C REQUIRED CALIPER INCHES TO REPLACE:								388.5
D	#68	16"	Pinus nigra	Austrian Pine	Good	C	0.5	8
	#69	14"	Gleditsia sp.	Thornless Honey Locust	Good	B	0.75	10.5
	#70	2"	Ametanchier	Servicetree	Good	A	1.25	2.5
	#71	6"	Gleditsia sp.	Thornless Honey Locust	Poor	B	0.75	4.5
	#72	4"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3
	#73	7"	Gleditsia sp.	Thornless Honey Locust	Good	B	0.75	5.25
	#74	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#75	10"	Ulmus sp.	Hybrid Elm	Good	B	0.75	7.5
	#76	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#77	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#78	8"	Quercus bicolor	Swamp White Oak	Good	A	1.25	7.5
	#79	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#80	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#81	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#82	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#83	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#84	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#85	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#86	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#87	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#88	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#89	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#90	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#91	3"	Crataegus sp.	Hawthorn	Good	A	1.25	3.75
	#92	9"	Ulmus sp.	Elm Hybrid	Good	B	0.75	6.75
	#93	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
	#94	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75
#95	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75	
#96	6"	Quercus bicolor	Swamp White Oak	Good	A	1.25	7.5	
#97	6"	Quercus rubra	Northern Red Oak	Good	A	1.25	7.5	
#98	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75	
#99	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75	
#100	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75	
#101	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75	
#102	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75	
#103	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75	
#104	3"	Thuja sp.	Arborvitae	Fair	A	1.25	3.75	
#105	6"	Gleditsia sp.	Thornless Honey Locust	Good	B	0.75	4.5	
#106	7"	Ulmus sp.	Elm Hybrid	Good	B	0.75	5.25	
#107	5"	Abies concolor	White Fir	Good	B	0.75	3.75	
#108	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75	
#109	3"	Picea abies	Norway Spruce	Good	B	0.75	2.25	
#110	5"	Acer rubrum sp.	Red Maple Hybrid	Good	B	0.75	3.75	
SHEET D REQUIRED CALIPER INCHES TO REPLACE:								191.25
E	#111	6"	Gymnocladus dioica	Kentucky Coffeetree	Good	Parkway Tree	1.25	7.5
	#112	25"	Ulmus sp.	Elm	Good	Parkway Tree	1.25	31.25
	#113	25"	Ulmus sp.	Elm	Good	Parkway Tree	1.25	31.25
	#114	6"	Malus	Crabapple	Fair	A	1.25	7.5
	#115	9"	Acer platanoides	Norway Maple	Good	Parkway Tree	1.25	11.25
	#116	10"	Acer platanoides	Norway Maple	Good	Parkway Tree	1.25	12.5
	#117	11"	Acer platanoides	Norway Maple	Good	Parkway Tree	1.25	13.75
	#118	23"	Gleditsia sp.	Thornless Honey Locust	Fair	B	0.75	21.75
	#119	23"	Tilia sp.	Linden	Fair	A	1.25	28.75
	#120	24"	Tilia sp.	Linden	Good	A	1.25	30
	#121	16"	Tilia sp.	Linden	Good	A	1.25	20
SHEET E REQUIRED CALIPER INCHES TO REPLACE:								215.5
SITE WIDE TOTAL REQUIRED CALIPER INCHES TO REPLACE:								908.5

SITE WIDE TOTAL PROPOSED CALIPER INCHES (refer to planting plan and schedule):	794
SITE WIDE TOTAL REQUIRED CALIPER INCHES TO REPLACE (refer to tree demo plan and schedule):	908.5
DIFFERENCE:	(-115)

TREE MITIGATION FEE FORMULA (\$150 per caliper inch that is not replaced): 115" x \$150 = \$17,250	
ESTIMATED DOLLAR AMOUNT TO PAY INTO CITY OF EVANSTON TREE MITIGATION FUND:	\$17,250

STATEMENT: Per Evanston, IL Code of Ordinances, Title 7 – Public Ways/ Chapter 8 - Trees and Shrubs, tree species are defined into (4) groups. Groups A, B, C, and D. These groups are based on ratings provided in the trees species standards for species characteristics including environmental adaptability, biological traits, longevity, maintenance needs, and landscape value.

Group A consists of the most desirable species. The replacement rate for group A is 125% for every caliper inch removed. Group C consists of the least desirable species. The replacement rate for group C is 50% for every caliper inch removed. Certain factors including the health and safety of trees also determine the replacement rate.

site has identified all of the tree species to be removed, catalogued them into this spreadsheet, and calculated the replacement rate. In total, site has calculated 908.5 caliper inches that need to be replaced. site is strategically proposing a large amount of trees with large caliper sizes to meet this replacement. In total, there are 794 caliper inches proposed – a difference of (114) caliper inches. To meet city code, it is estimated that the owner shall pay approximately \$17,250 (\$150 for every caliper not replaced)*.

*NOTE: City of Evanston shall determine final dollar amount based on their assessment.